

Grivory HT2V-5H PA6T/66-GF50

EMS-GRIVORY | a unit of EMS-CHEMIE AG

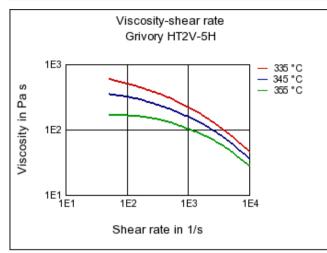
Product Texts

Product-nomenclature acc. ISO 1874: PA6T/66, MH, 14-190, GF50

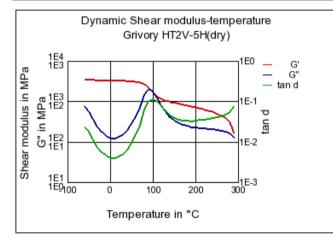
Tensile Modulus 17500 / 17000 MPa ISO 527-1/-2 Stress at break 250 / 215 MPa ISO 527-1/-2 Strain at break 21/2 % ISO 527-1/-2 Charpy impact strength (+23°C) 75 / 75 KJ/m² ISO 179/1eU Charpy notched impact strength (+23°C) 11 / 11 KJ/m² ISO 179/1eU Charpy notched impact strength (+23°C) 11 / 11 KJ/m² ISO 179/1eU Charpy notched impact strength (-30°C) 11 / 11 KJ/m² ISO 179/1eU Charpy notched impact strength (-30°C) 11 / 11 KJ/m² ISO 179/1eU Charpy notched impact strength (-30°C) 11 / 11 KJ/m² ISO 179/1eU Charpy notched impact strength (-30°C) 11 / 11 KJ/m² ISO 179/1eA Mechanical properties dry / cond Unit Test Standard Ball indentation hardness 325 / 325 MPa ISO 2039-1 Temp. of deflection under load (1.80 MPa) 280 / - °C ISO 75-1/-2 Temp. of deflection under load (8.00 MPa) 230 / - °C ISO 75-1/-2 Coeff. of linear therm, expansion (paralle) 10 / - E-6/K I	1 A01/00, Mill, 14-190, OI 50			
Stress at break 250/215 MPa ISO 527-1/-2 Strain at break 2 / 2 % ISO 527-1/-2 Charpy impact strength (+23°C) 75/175 k.J/m² ISO 179/1eU Charpy impact strength (+23°C) 11/11 k.J/m² ISO 179/1eU Charpy inpact strength (+23°C) 11/11 k.J/m² ISO 179/1eU Charpy notched impact strength (+23°C) 11/11 k.J/m² ISO 179/1eA Mechanical properties (TPE) dry / cond Unit Test Standard Ball indentation hardness 325 / 325 MPa ISO 2039-1 Thermal properties dry / cond Unit Test Standard Melting temperature (10°C/min) 310 /- °C ISO 173/1-3 Temp. of deflection under load (0.00 MPa) 280 /- °C ISO 75-1/-2 Coeff. of linear therm. expansion (parallel) 10 /- E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion (parallel) 10 /- E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion (parallel) 10 /- E-6/K ISO 11359-1/-2 Coe	Mechanical properties	dry / cond	Unit	Test Standard
Strain at break 2/2 % ISO 527-1/-2 Charpy impact strength (+23°C) 75 / 75 kJ/m² ISO 179/1eU Charpy impact strength (+23°C) 60 / 60 kJ/m² ISO 179/1eU Charpy inpact strength (+23°C) 11 / 11 kJ/m² ISO 179/1eU Charpy notched impact strength (+23°C) 11 / 11 kJ/m² ISO 179/1eU Charpy notched impact strength (-30°C) 11 / 10 kJ/m² ISO 179/1eU Charpy notched impact strength (-30°C) 11 / 10 kJ/m² ISO 179/1eU Meting temperature (1°C/min) 310 / - K ISO 179/1eA Thermal properties dry / cond Unit Test Standard Melting temperature (10°C/min) 310 / - *C ISO 17357-1/-2 Temp. of deflection under load (1.80 MPa) 280 / - *C ISO 75-1/-2 Coeff. of linear therm. expansion (parallel) 10 / - E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion (parallel) 10 / - E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion (normal) 55/1 - E-6/K ISO 11359-1/-2 </td <td>Tensile Modulus</td> <td>17500 / 17000</td> <td>MPa</td> <td>ISO 527-1/-2</td>	Tensile Modulus	17500 / 17000	MPa	ISO 527-1/-2
Charpy impact strength (+23°C) 75 / 75 k.//m² ISO 179/1eU Charpy impact strength (-30°C) 60 / 60 k.//m² ISO 179/1eU Charpy notched impact strength (+23°C) 11 / 11 k.//m² ISO 179/1eA Charpy notched impact strength (-30°C) 11 / 10 k.//m² ISO 179/1eA Mechanical properties (TPE) dry / cond Unit Test Standard Ball indentation hardness 325 / 325 MPa ISO 2039-1 Thermal properties dry / cond Unit Test Standard Meling temperature (10°C/min) 310 / - °C ISO 11357-1/-3 Temp. of deflection under load (8.00 MPa) 280 / - °C ISO 75-1/-2 Temp. of deflection under load (8.00 MPa) 230 / - °C ISO 75-1/-2 Coeff. of linear therm. expansion (parallel) 10 / - E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion (normal) 55 / - E-6/K ISO 11359-1/-2 Deriver therm. expansion (normal) 55 / - E-6/K ISO 11359-1/-2 Deriver therm. expansion (normal) 55 / - E-6/K	Stress at break	250 / 215	MPa	ISO 527-1/-2
Charpy impact strength (-30°C) 60 / 60 k.//m² ISO 179/1eU Charpy notched impact strength (-30°C) 11 / 11 k.//m² ISO 179/1eA Charpy notched impact strength (-30°C) 11 / 10 k.//m² ISO 179/1eA Mechanical properties (TPE) dry / cond Unit Test Standard Ball indentation hardness 325 / 325 MPa ISO 2039-1 Thermal properties dry / cond Unit Test Standard Meling temperature (10°C/min) 310 / - °C ISO 75-1/-2 Temp. of deflection under load (1.80 MPa) 280 / - °C ISO 75-1/-2 Temp. of deflection under load (8.00 MPa) 230 / - °C ISO 1739/1-2 Coeff. of linear therm. expansion (parallel) 10 / - E-6/K ISO 11359-1/-2 Derming Behav. at thickness h HB / - class IEC 60095-11-10 Thickness tested 0.8 / - mm IEC 60095-11-10 Max. usage temperature (long term) 140 °C ISO 2578 Max. usage temperature (short term) 270 °C EMS <td< td=""><td>Strain at break</td><td>2/2</td><td>%</td><td>ISO 527-1/-2</td></td<>	Strain at break	2/2	%	ISO 527-1/-2
Charpy notched impact strength (+23°C) 11 / 11 kJ/m² ISO 179/1eA Charpy notched impact strength (-30°C) 11 / 10 kJ/m² ISO 179/1eA Mechanical properties (TPE) dry / cond Unit Test Standard Ball indentation hardness 325 / 325 MPa ISO 2039-1 Thermal properties dry / cond Unit Test Standard Melting temperature (10°C/min) 310 /- °C ISO 179/1eA Temp. of deflection under load (1.80 MPa) 280 /- °C ISO 75-1/-2 Coeff. of linear therm. expansion (parallel) 10 /- E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion (normal) 55 /- E-6/K ISO 11359-1/-2 Burning Behav. at thickness h HB /- class IEC 60695-11-10 Thickness tested 0.8 /- mm IEC 60695-11-10 Max. usage temperature (long term) 140 °C ISO 2578 Max. usage temperature (short term) 270 °C EMS Electrical properties dry / cond Unit Test Standard Volume	Charpy impact strength (+23°C)	75 / 75	kJ/m²	ISO 179/1eU
Charpy notched impact strength (-30°C) 11 / 10 kJ/m² ISO 179/1eA Mechanical properties (TPE) dry / cond Unit Test Standard Ball indentation hardness 325 / 325 MPa ISO 2039-1 Thermal properties dry / cond Unit Test Standard Meling temperature (10°C/min) 310 / - °C ISO 75-1/-3 Temp. of deflection under load (1.80 MPa) 280 / - °C ISO 75-1/-2 Temp. of deflection under load (8.00 MPa) 230 / - °C ISO 75-1/-2 Coeff. of linear therm. expansion (parallel) 10 / - E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion (normal) 55 / - E-6/K ISO 11359-1/-2 Burning Behav. at thickness h HB / - class IEC 60695-11-10 Thickness tested 0.8 / - mm IEC 60695-11-10 Thickness tested 0.8 / - mm IEC 60695-11-10 Thickness tested 0.8 / - mm IEC 600693 Surface resistivity 1E10 / 1E10 Ohm 'm IEC 60093 Surface resistivity<	Charpy impact strength (-30°C)	60 / 60	kJ/m²	ISO 179/1eU
Mechanical properties (TPE) dry / cond Unit Test Standard Ball indentation hardness 325 / 325 MPa ISO 2039-1 Thermal properties dry / cond Unit Test Standard Melting temperature (10°C/min) 310 / - °C ISO 11357-1/-3 Temp. of deflection under load (8.00 MPa) 280 / - °C ISO 75-1/-2 Coeff. of linear therm. expansion (parallel) 10 / - E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion (parallel) 10 / - E-6/K ISO 11359-1/-2 Burning Behav. at thickness h HB / - class IEC 60695-11-10 Thickness tested 0.8 / - mm IEC 60695-11-10 Max. usage temperature (long term) 140 °C ISO 2578 Max. usage temperature (short term) 270 °C EMS Electrical properties Volume resistivity - IE12 Ohm IEC 60093 Surface resistivity - / 1E12 Ohm IEC 60033 Surface resistivity - / 1E12 Ohm IEC 60033 Comparative tracking index - / 600	Charpy notched impact strength (+23°C)	11 / 11	kJ/m²	ISO 179/1eA
Ball indentation hardness 325 / 325 MPa ISO 2039-1 Thermal properties dry / cond Unit Test Standard Melting temperature (10°C/min) 310 /- °C ISO 11357-1/-3 Temp. of deflection under load (1.80 MPa) 280 /- °C ISO 75-1/-2 Temp. of deflection under load (8.00 MPa) 230 /- °C ISO 75-1/-2 Coeff. of linear therm. expansion (parallel) 10 /- E-6/K ISO 11359-1/-2 Coeff. of inear therm. expansion (normal) 55 /- E-6/K ISO 11359-1/-2 Burning Behav. at thickness h HB /- class IEC 60695-11-10 Thickness tested 0.8 /- mm IEC 60695-11-10 Max. usage temperature (long term) 140 °C ISO 2578 Max. usage temperature (short term) 270 °C EMS Electrical properties dry / cond Unit Test Standard Volume resistivity -1/1E10 Ohm IEC 60093 Electric strength 38 / 38 kV/mm IEC 60033 Comparative tracking index -/	Charpy notched impact strength (-30°C)	11 / 10	kJ/m²	ISO 179/1eA
Ball indentation hardness 325 / 325 MPa ISO 2039-1 Thermal properties dry / cond Unit Test Standard Melting temperature (10°C/min) 310 /- °C ISO 11357-1/-3 Temp. of deflection under load (1.80 MPa) 280 /- °C ISO 75-1/-2 Temp. of deflection under load (8.00 MPa) 230 /- °C ISO 75-1/-2 Coeff. of linear therm. expansion (parallel) 10 /- E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion (normal) 55 /- E-6/K ISO 11359-1/-2 Burning Behav. at thickness h HB /- class IEC 60695-11-10 Thickness tested 0.8 /- mm IEC 60695-11-10 Max. usage temperature (long term) 140 °C ISO 2578 Max. usage temperature (short term) 270 °C EMS Electrical properties dry / cond Unit Test Standard Volume resistivity -1/1E10 Ohm */m IEC 60093 Electric strength 38 / 38 kV/mm IEC 60033 Comparative tracking index <	Mechanical properties (TPE)	dry / cond	Unit	Test Standard
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Melting temperature (10°C/min) 310 / - °C ISO 11357-1/-3 Temp. of deflection under load (1.80 MPa) 280 / - °C ISO 75-1/-2 Temp. of deflection under load (8.00 MPa) 230 / - °C ISO 75-1/-2 Coeff. of linear therm. expansion (parallel) 10 / - E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion (normal) 55 / - E-6/K ISO 11359-1/-2 Burning Behav. at thickness h HB / - class IEC 60695-11-10 Thickness tested 0.8 / - mm IEC 60695-11-10 Max. usage temperature (long term) 140 °C ISO 2578 Max. usage temperature (short term) 270 °C EMS Electrical properties Volume resistivity 1E10 / 1E10 Ohm*m IEC 60093 Surface resistivity - / 1E12 Ohm IEC 60093 Surface resistivity - / 1E12 Ohm IEC 600243-1 Comparative tracking index - / 600 - IEC 60112 Other properties dry / cond Unit Test Standard	Thormal properties	dry/oond	Unit	Toot Standard
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Comparative tracking index - / 600 - IEC 60112 Other properties dry / cond Unit Test Standard Water absorption 3.5 / - % Sim. to ISO 62 Humidity absorption 1.2 / - % Sim. to ISO 62 Density 1620 / - kg/m³ ISO 1183 Rheo/Phys properties dry / cond Unit Test Standard Molding shrinkage (parallel) 0.1 / - % ISO 294-4, 2577			-	
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Water absorption 3.5/- % Sim. to ISO 62 Humidity absorption 1.2/- % Sim. to ISO 62 Density 1620/- kg/m³ ISO 1183 Rheo/Phys properties Molding shrinkage (parallel) 0.1/- % ISO 294-4, 2577	Comparative tracking index	- / 600	-	IEC 60112
Humidity absorption 1.2 / - % Sim. to ISO 62 Density 1620 / - kg/m³ ISO 1183 Rheo/Phys properties dry / cond Unit Test Standard Molding shrinkage (parallel) 0.1 / - % ISO 294-4, 2577		dry / cond	Unit	
Density 1620 / - kg/m³ ISO 1183 Rheo/Phys properties dry / cond Unit Test Standard Molding shrinkage (parallel) 0.1 / - % ISO 294-4, 2577	Water absorption	3.5 / -		Sim. to ISO 62
Rheo/Phys properties dry / cond Unit Test Standard Molding shrinkage (parallel) 0.1 / - % ISO 294-4, 2577	Humidity absorption	1.2 / -	%	Sim. to ISO 62
Molding shrinkage (parallel) 0.1 / - % ISO 294-4, 2577	Density	1620 / -	kg/m³	ISO 1183
	Rheo/Phys properties	dry / cond	Unit	Test Standard
Molding shrinkage (normal) 0.7 / - % ISO 294-4, 2577	Molding shrinkage (parallel)	0.1 / -	%	ISO 294-4, 2577
	Molding shrinkage (normal)	0.7 / -	%	ISO 294-4, 2577

Diagrams

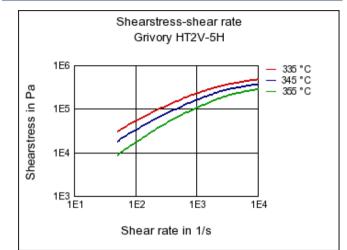
Viscosity-shear rate



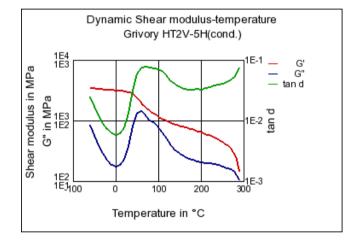
Dynamic Shear modulus-temperature



Shearstress-shear rate



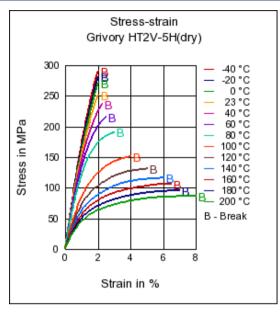
Dynamic Shear modulus-temperature



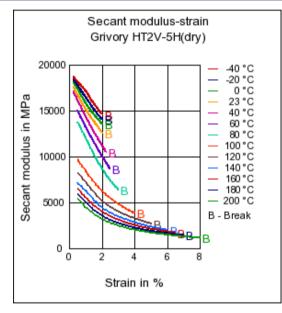
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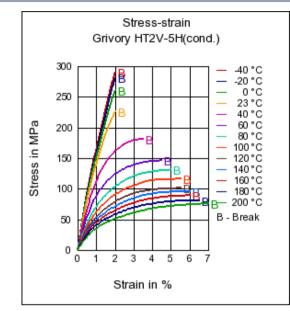
Stress-strain



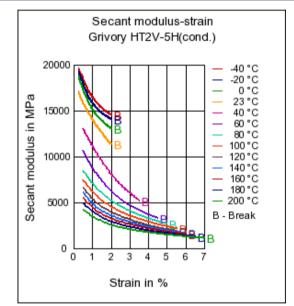
Secant modulus-strain



Stress-strain



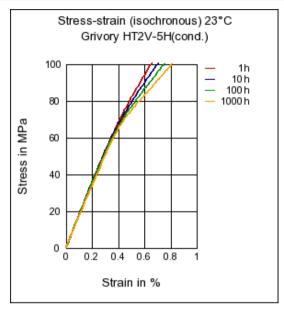
Secant modulus-strain



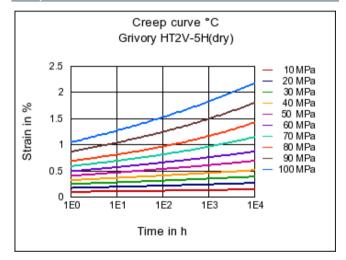
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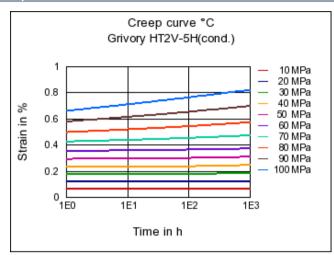
Stress-strain (isochronous) 23°C

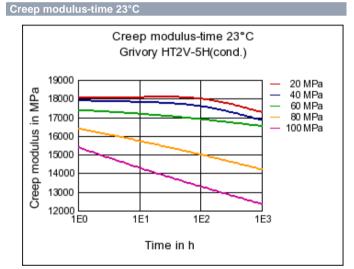


Creep curve °C



Creep curve °C





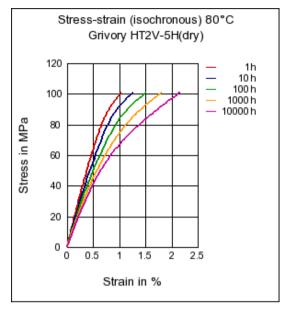
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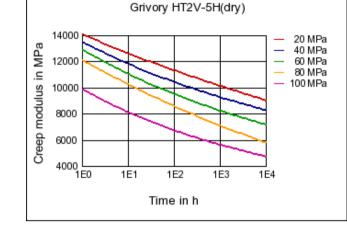
The values are intended to serve as an aid in preselecting materials and for an overview of the EMS-GRIVORY product range. The information contained in this publication is based on our present knowledge and experience. The given figures and data are guidance values and do not represent binding material specifications. No warranties of any kind, either express or implied, including warranties of merchantability or fitness for a particular purpose, are given regarding products, design, data and information. The customer is not released from his obligation to investigate the products fitness and the suitability for the intended application, compliance with legal requirements and intellectual property rights. We reserve the right to change the information at any time and without prior notice. The information is not to be considered a contractual obligation and anyliability whatsoever is expressly declined. For further questions about our products please contact our experts.

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Creep modulus-time 80°C

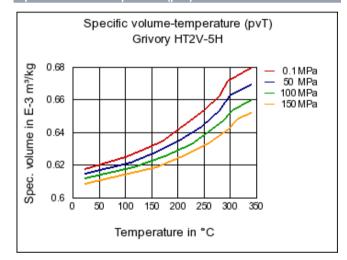
Stress-strain (isochronous) 80°C

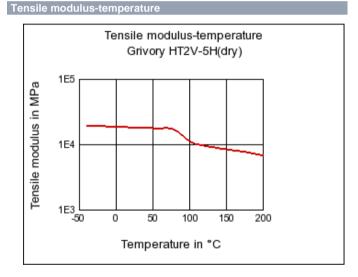




Creep modulus-time 80°C

Specific volume-temperature (pvT)



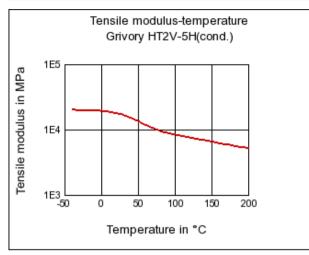


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Tensile modulus-temperature



Characteristics

Processing

Injection Molding

Delivery form

Granules

Special Characteristics

Improved UV resistance (outdoor use), Improved heat resistance

Chemical Media Resistance

Acids ٠ Acetic Acid (5% by mass) (23°C) ٠ Citric Acid solution (10% by mass) (23°C) ٠ Lactic Acid (10% by mass) (23°C) 0 Hydrochloric Acid (36% by mass) (23°C) 0 Nitric Acid (40% by mass) (23°C) 0 Sulfuric Acid (38% by mass) (23°C) •• Sulfuric Acid (5% by mass) (23°C) ٥ Chromic Acid solution (40% by mass) (23°C) Bases ٠ Sodium Hydroxide solution (35% by mass) (23°C)

- Sodium Hydroxide solution (1% by mass) (23°C)
- Ammonium Hydroxide solution (10% by mass) (23°C)

Alcohols

Isopropyl alcohol (23°C)

🙂 Methanol (23°C)

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Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Automotive

Fuel systems, Powertrain and Chassis , Interior, Exterior

Industry & Consumer goods

Housewares, Hydraulics & Pneumatics, Mechanical Engineering, Power transmission, Sports & Leisure, Tools & Accessories

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\odot	Ethanol (23°C)		
Hydrocarbons			
** **	n-Hexane (23°C) Toluene (23°C) iso-Octane (23°C)		
Keton	es		
••	Acetone (23°C)		
Ethom	· ·		
Ethers			
	Diethyl ether (23°C)		
Miner	al oils		
• • • •	SAE 10W40 multigrade motor oil (23°C) SAE 10W40 multigrade motor oil (130°C) SAE 80/90 hypoid-gear oil (130°C) Insulating Oil (23°C)		
Stand	ard Fuels		
	ISO 1817 Liquid 1 (60°C) ISO 1817 Liquid 2 (60°C) ISO 1817 Liquid 3 (60°C) ISO 1817 Liquid 4 (60°C) Standard fuel without alcohol (pref. ISO 1817 Liquid C) (23°C) Standard fuel with alcohol (pref. ISO 1817 Liquid 4) (23°C) Diesel fuel (pref. ISO 1817 Liquid F) (23°C) Diesel fuel (pref. ISO 1817 Liquid F) (90°C) Diesel fuel (pref. ISO 1817 Liquid F) (>90°C)		
Salt s	olutions		
	Sodium Chloride solution (10% by mass) (23°C) Sodium Hypochlorite solution (10% by mass) (23°C) Sodium Carbonate solution (20% by mass) (23°C) Sodium Carbonate solution (2% by mass) (23°C) Zinc Chloride solution (50% by mass) (23°C)		
Other			
	Ethyl Acetate (23°C) Hydrogen peroxide (23°C) DOT No. 4 Brake fluid (130°C) Ethylene Glycol (50% by mass) in water (108°C) 1% nonylphenoxy-polyethyleneoxy ethanol in water (23°C) 50% Oleic acid + 50% Olive Oil (23°C) Water (23°C) Deionized water (90°C) Phenol solution (5% by mass) (23°C)		

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