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Grivory HT1V-5 FWA nat PA6T/6I-GF50

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Product Texts

Product designation according to ISO 1874: PA6T/6I, MH, 12-190, GF50

Tensile Modulus 18000/117500 MPa ISO 527-1/-2 Stress at break 250/240 MPa ISO 527-1/-2 Stress at break 21/2 % ISO 527-1/-2 Charpy impact strength (+23°C) 80 / 80 kJ/m² ISO 179/1eU Charpy impact strength (-30°C) 80 / 80 kJ/m² ISO 179/1eU Charpy mact strength (-30°C) 11 / 11 kJ/m² ISO 179/1eU Charpy notched impact strength (-30°C) 10 / 10 kJ/m² ISO 179/1eU Charpy notched impact strength (-30°C) 10 / 10 kJ/m² ISO 179/1eU Charpy notched impact strength (-30°C) 10 / 10 kJ/m² ISO 179/1eA Meting temperature (10°C/min) 325 / - 'C ISO 75-1/-2 Temp. of deflection under load (1.80 MPa) 285 / - 'C ISO 75-1/-2 Temp. of deflection under load (3.00 MPa) 175 / - 'E ISO 11359-1/-2 Coeff. of linear therm. expansion (normai) 40 / - E-6/K ISO 11359-1/-2 Burning Behav. at thickness h HB / - class IEC 60095-11-10 Th	Mechanical properties	dry / cond	Unit	Test Standard
Stress at break 250 / 240 MPa ISO 527-1/-2 Strain at break 2 / 2 % ISO 527-1/-2 Charpy impact strength (+23°C) 80 / 80 kJ/m² ISO 179/1eU Charpy impact strength (+23°C) 80 / 80 kJ/m² ISO 179/1eU Charpy inpact strength (+23°C) 11 / 11 kJ/m² ISO 179/1eA Charpy notched impact strength (+23°C) 11 / 11 kJ/m² ISO 179/1eA Charpy notched impact strength (+30°C) 10 / 10 kJ/m² ISO 179/1eA Machanical properties dry / cond Unit Test Standard Ball indentation hardness 340 / 340 MPa ISO 2039-1 Thermal properties dry / cond Unit Test Standard Meting temperature (10°C/min) 325 / - °C ISO 75-1/-2 Coeff. of linear therm. expansion (parallel) 175 / - °C ISO 75-1/-2 Coeff. of linear therm. expansion (parallel) 15 / - E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion (parallel) 40 / - E-6/K ISO 2578 Max. usage			MPa	
Strain at break 2 / 2 % ISO 527-1/-2 Charpy impact strength (+23°C) 80 / 80 kJ/m² ISO 179/1eU Charpy impact strength (+23°C) 80 / 80 kJ/m² ISO 179/1eU Charpy motched impact strength (+23°C) 11 / 11 kJ/m² ISO 179/1eJ Charpy notched impact strength (-30°C) 10 / 10 kJ/m² ISO 179/1eJ Mechanical properties dry / cond Unit Test Standard Ball indentation hardness 340 / 340 MPa ISO 2039-1 Thermal properties dry / cond Unit Test Standard Melting temperature (10°C/min) 325 / - °C ISO 17357-1/-2 Temp. of deflection under load (8.00 MPa) 175 / - °C ISO 175-1/-2 Temp. of deflection under load (8.00 MPa) 175 / - °C ISO 175-1/-2 Coeff. of linear therm. expansion (normal) 40 / - E-6/K ISO 1359-1/-2 Deming Behav. at thickness h HB / - class IEC 600695-11-10 Thickness tested 0.8 / - mm IEC 600695-11-10 Max. usag				
Charpy impact strength (-30°C) 80 / 80 kJ/m² ISO 179/1eU Charpy notched impact strength (+23°C) 11 / 11 kJ/m² ISO 179/1eA Charpy notched impact strength (+23°C) 10 / 10 kJ/m² ISO 179/1eA Charpy notched impact strength (-30°C) 10 / 10 kJ/m² ISO 179/1eA Mechanical properties (TPE) dry / cond Unit Test Standard Ball indentation hardness 340 / 340 MPa ISO 2039-1 Thermal properties dry / cond Unit Test Standard Melting temperature (10°C/min) 325 / - °C ISO 75-1/-2 Temp. of deflection under load (8.00 MPa) 175 / - °C ISO 75-1/-2 Coeff. of linear therm. expansion (parallel) 15 / - E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion (normal) 40 / - E-6/K ISO 11359-1/-2 Burning Behav. at thickness h HB / - class IEC 600695-11-10 Max. usage temperature (long term) 140 °C ISO 2578 Max. usage temperature (short term) 270 °C EMS <	Strain at break	2/2	%	
Charpy impact strength (-30°C) 80 / 80 kJ/m² ISO 179/1eU Charpy notched impact strength (+23°C) 11 / 11 kJ/m² ISO 179/1eA Charpy notched impact strength (-30°C) 10 / 10 kJ/m² ISO 179/1eA Charpy notched impact strength (-30°C) 10 / 10 kJ/m² ISO 179/1eA Mechanical properties (TPE) dry / cond Unit Test Standard Ball indentation hardness 340 / 340 MPa ISO 2039-1 Thermal properties dry / cond Unit Test Standard Melting temperature (10°C/min) 325 / - °C ISO 75-1/-2 Temp. of deflection under load (8.00 MPa) 175 / - °C ISO 75-1/-2 Coeff. of linear therm. expansion (parallel) 15 / - E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion (normal) 40 / - E-6/K ISO 11359-1/-2 Burning Behav. at thickness h HB / - class IEC 60095-11-10 Max. usage temperature (long term) 140 °C ISO 2578 Max. usage temperature (short term) 270 °C EMS </td <td>Charpy impact strength (+23°C)</td> <td>80 / 80</td> <td>kJ/m²</td> <td>ISO 179/1eU</td>	Charpy impact strength (+23°C)	80 / 80	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C) 11 / 11 kJ/m² ISO 179/16A Charpy notched impact strength (-30°C) 10 / 10 kJ/m² ISO 179/16A Mechanical properties (TPE) dry / cond Unit Test Standard Ball indentation hardness 340 / 340 MPa ISO 2039-1 Thermal properties dry / cond Unit Test Standard Melting temperature (10°C/min) 325 / - °C ISO 11357-1/-3 Temp. of deflection under load (1.80 MPa) 285 / - °C ISO 75-1/-2 Coeff. of linear therm. expansion (parallel) 15 / - °C ISO 75-1/-2 Coeff. of linear therm. expansion (normal) 40 / - 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 EMS Volume resistivity 1/11121 Ohm*m IEC 60093 Surface resistivity 1/1122 Ohm IEC 60093 Surface resistivity		80 / 80		
Charpy notched impact strength (-30°C) 10 / 10 kJ/m² ISO 179/1eA Mechanical properties (TPE) dry / cond Unit Test Standard Ball indentation hardness 340 / 340 MPa ISO 2039-1 Thermal properties dry / cond Unit Test Standard Metting temperature (10°C/min) 325 / - °C ISO 11357-1/-3 Temp. of deflection under load (1.80 MPa) 285 / - °C ISO 75-1/-2 Temp. of deflection under load (8.00 MPa) 175 / - °C ISO 75-1/-2 Coeff. of linear therm. expansion (parallel) 15 / - 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 -/1E12 Ohm IEC 60093 Surface resistivity Electric strength 35 / 35 kV/mm IEC 60033		11/11	kJ/m²	
Mechanical properties (TPE) dry / cond Unit Test Standard Ball indentation hardness 340 / 340 MPa ISO 2039-1 Thermal properties dry / cond Unit Test Standard Mething temperature (10°C/min) 325 /- °C ISO 1557-1/-2 Temp. of deflection under load (1.80 MPa) 285 /- °C ISO 75-1/-2 Temp. of deflection under load (8.00 MPa) 175 /- °C ISO 75-1/-2 Coeff. of linear therm. expansion (parallel) 15 /- E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion (normal) 40 /- 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 -/1E12 Ohm IEC 60093 Surface resistivity -/1E12 Ohm IEC 60112 -/16			kJ/m ²	ISO 179/1eA
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Ball indentation hardness 340 / 340 MPa ISO 2039-1 Thermal properties dry / cond Unit Test Standard Melting temperature (10°C/min) 325 / - °C ISO 11357-1/-3 Temp. of deflection under load (1.80 MPa) 285 / - °C ISO 75-1/-2 Temp. of deflection under load (8.00 MPa) 175 / - °C ISO 75-1/-2 Coeff. of linear therm. expansion (parallel) 15 / - E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion (normal) 40 / - 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 (long term) 270 °C EMS Electrical properties dry / cond Unit Test Standard Volume resistivity 1E11 / 1E11 Ohm'm IEC 60093 Electric strength 35 / 35 k/Vmm IEC 60112 Other properties <td< td=""><td>Mechanical properties (TPE)</td><td>drv / cond</td><td>Unit</td><td>Test Standard</td></td<>	Mechanical properties (TPE)	drv / cond	Unit	Test Standard
Metting temperature (10°C/min) 325 /- °C ISO 11357-1/-3 Temp. of deflection under load (1.80 MPa) 285 /- °C ISO 75-1/-2 Temp. of deflection under load (8.00 MPa) 175 /- °C ISO 75-1/-2 Coeff. of linear therm. expansion (parallel) 15 /- E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion (normal) 40 /- 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 1E11 / 1E11 Ohm*m IEC 60093 Surface resistivity - / 1E12 Ohm IEC 60112 Comparative tracking index - / 600 - IEC 60112 Other properties dry / cond Unit Test Standard Water absorption 1.3 /- % Sim. to ISO 62 <t< td=""><td></td><td></td><td>MPa</td><td></td></t<>			MPa	
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Temp. of deflection under load (1.80 MPa) 285 /- °C ISO 75-1/-2 Temp. of deflection under load (8.00 MPa) 175 /- °C ISO 75-1/-2 Coeff. of linear therm. expansion (parallel) 15 /- E-6/K ISO 11359-1/-2 Burning Behav. at thickness h 40 /- 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 1E11 / 1E11 Ohm*m IEC 60093 Surface resistivity - / 1E12 Ohm IEC 60093 Electric strength 35 / 35 kV/mm IEC 60093 Comparative tracking index - / 600 - IEC 60112 Other properties dry / cond Unit Test Standard Water absorption 3 /- % Sim. to ISO 62 Humidity absorption 1.3 /- % Sim. to ISO 62 <				
Temp. of deflection under load (8.00 MPa) 175 /- °C ISO 75-1/-2 Coeff. of linear therm. expansion (parallel) 15 / - E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion (normal) 40 / - 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 1E11/1E11 Ohm*m IEC 60093 Surface resistivity -/1E12 Ohm IEC 6023-11-10 Other properties dry / cond Unit Test Standard Volume resistivity 1E11/1E11 Ohm*m IEC 60093 Electric strength 35 / 35 kV/mm IEC 60243-1 Comparative tracking index - / 600 - IEC 60112 Other properties dry / cond Unit			-	
Coeff. of linear therm. expansion (parallel) 15 / - E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion (normal) 40 / - E-6/K ISO 11359-1/-2 Burning 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 Electrical properties dry / cond Unit Test Standard Volume resistivity 1E11/1E11 Ohm*m IEC 60093 Surface resistivity - / 1E12 Ohm IEC 60093 Electric strength 35 / 35 kV/mm IEC 60243-1 Comparative tracking index - / 600 - IEC 60112 Other properties dry / cond Unit Test Standard Water absorption 3 / - % Sim. to ISO 62 Humidity absorption 1.3 / - % Sim. to ISO 62 Density 1650 / - kg/m³ ISO 1183				
Coeff. of linear therm. expansion (normal) 40 / - 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 1E11 / 1E11 Ohm IEC 60093 Surface resistivity Surface resistivity -/1E12 Ohm IEC 60093 Surface 60093 Surface resistivity Comparative tracking index -/600 - IEC 60112 Other properties dry / cond Unit Test Standard Water absorption 3/- % Sim. to ISO 62 Humidity absorption 1.3/- % Sim. to ISO 62 Density 1650 /- kg/m³ ISO 1183			-	
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 1E11 / 1E11 Ohm *m IEC 60093 Surface resistivity - / 1E12 Ohm IEC 60243-1 Comparative tracking index - / 600 - IEC 60112 Other properties dry / cond Unit Test Standard Water absorption 3 / - % Sim. to ISO 62 Humidity absorption 1.3 / - % Sim. to ISO 62 Density 1650 / - kg/m³ ISO 1183 Rheo/Phys properties dry / cond Unit Test Standard Molding shrinkage (parallel) 0.1 / - % ISO 294-4, 2577				
Thickness tested0.8 / -mmIEC 60695-11-10Max. usage temperature (long term)140°CISO 2578Max. usage temperature (short term)270°CEMSElectrical propertiesdry / condUnitTest StandardVolume resistivity1E11 / 1E11Ohm*mIEC 60093Surface resistivity-/1E12OhmIEC 60093Electric strength35 / 35kV/mmIEC 60243-1Comparative tracking index- / 600-IEC 60112Other propertiesWater absorption3 / -%Humidity absorption1.3 / -%Density1650 / -kg/m³Rheo/Phys propertiesdry / condUnitMolding shrinkage (parallel)0.1 / -%ISO 294-4, 2577		HB/-		
Max. usage temperature (long term)140°CISO 2578Max. usage temperature (short term)270°CEMSElectrical propertiesdry / condUnitTest StandardVolume resistivity1E11/1E11Ohm*mIEC 60093Surface resistivity-/1E12OhmIEC 60093Electric strength35 / 35kV/mmIEC 60243-1Comparative tracking index-/ 600-IEC 60112Other propertiesdry / condUnitTest StandardWater absorption3 / -%Sim. to ISO 62Humidity absorption1.3 / -%Sim. to ISO 62Density1650 / -kg/m³ISO 1183Rheo/Phys propertiesdry / condUnitTest StandardMolding shrinkage (parallel)0.1 / -%ISO 294-4, 2577		0.8/-	mm	IEC 60695-11-10
Max. usage temperature (short term) 270 °C EMS Electrical properties dry / cond Unit Test Standard Volume resistivity 1E11 / 1E11 Ohm *m IEC 60093 Surface resistivity -/1E12 Ohm IEC 60093 Electric strength 35 / 35 kV/mm IEC 60243-1 Comparative tracking index -/ 600 - IEC 60112 Other properties dry / cond Unit Test Standard Water absorption 3 / - % Sim. to ISO 62 Humidity absorption 1.3 / - % Sim. to ISO 62 Density 1650 / - kg/m³ ISO 1183 Rheo/Phys properties dry / cond Unit Test Standard Molding shrinkage (parallel) 0.1 / - % ISO 294-4, 2577	Max. usage temperature (long term)			ISO 2578
Volume resistivity 1E11/1E11 Ohm*m IEC 60093 Surface resistivity -/1E12 Ohm IEC 60093 Electric strength 35/35 kV/mm IEC 60243-1 Comparative tracking index -/600 - IEC 60112 Other properties dry / cond Unit Test Standard Water absorption 3/- % Sim. to ISO 62 Humidity absorption 1.3/- % Sim. to ISO 62 Density 1650/- kg/m³ ISO 1183 Rheo/Phys properties dry / cond Unit Test Standard Molding shrinkage (parallel) 0.1 /- % ISO 294-4, 2577	Max. usage temperature (short term)	270	°C	
Volume resistivity 1E11/1E11 Ohm*m IEC 60093 Surface resistivity -/1E12 Ohm IEC 60093 Electric strength 35/35 kV/mm IEC 60243-1 Comparative tracking index -/600 - IEC 60112 Other properties dry / cond Unit Test Standard Water absorption 3/- % Sim. to ISO 62 Humidity absorption 1.3/- % Sim. to ISO 62 Density 1650/- 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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Electric strength35 / 35kV/mmIEC 60243-1Comparative tracking index- / 600-IEC 60112Other propertiesdry / condUnitTest StandardWater absorption3 / -%Sim. to ISO 62Humidity absorption1.3 / -%Sim. to ISO 62Density1650 / -kg/m³ISO 1183Rheo/Phys propertiesdry / condUnitTest StandardMolding shrinkage (parallel)0.1 / -%ISO 294-4, 2577			Ohm*m	IEC 60093
Comparative tracking index- / 600-IEC 60112Other propertiesdry / condUnitTest StandardWater absorption3 / -%Sim. to ISO 62Humidity absorption1.3 / -%Sim. to ISO 62Density1650 / -kg/m³ISO 1183Rheo/Phys propertiesdry / condUnitTest StandardMolding shrinkage (parallel)0.1 / -%ISO 294-4, 2577		-/1E12	Ohm	IEC 60093
Other properties dry / cond Unit Test Standard Water absorption 3 / - % Sim. to ISO 62 Humidity absorption 1.3 / - % Sim. to ISO 62 Density 1650 / - kg/m³ ISO 1183 Rheo/Phys properties dry / cond Unit Test Standard Molding shrinkage (parallel) 0.1 / - % ISO 294-4, 2577	Electric strength	35 / 35	kV/mm	IEC 60243-1
Water absorption 3/- % Sim. to ISO 62 Humidity absorption 1.3/- % Sim. to ISO 62 Density 1650/- kg/m³ ISO 1183 Rheo/Phys properties Molding shrinkage (parallel) 0.1/- % ISO 294-4, 2577	Comparative tracking index	- / 600	-	IEC 60112
Water absorption 3/- % Sim. to ISO 62 Humidity absorption 1.3/- % Sim. to ISO 62 Density 1650/- kg/m³ ISO 1183 Rheo/Phys properties Molding shrinkage (parallel) 0.1/- % ISO 294-4, 2577	`			
Water absorption 3/- % Sim. to ISO 62 Humidity absorption 1.3/- % Sim. to ISO 62 Density 1650/- kg/m³ ISO 1183 Rheo/Phys properties Molding shrinkage (parallel) 0.1/- % ISO 294-4, 2577		dry / cond	Unit	Test Standard
Humidity absorption 1.3 / - % Sim. to ISO 62 Density 1650 / - kg/m³ ISO 1183 Rheo/Phys properties dry / cond Unit Test Standard Molding shrinkage (parallel) 0.1 / - % ISO 294-4, 2577	Water absorption	3/-		Sim. to ISO 62
Rheo/Phys properties dry / cond Unit Test Standard Molding shrinkage (parallel) 0.1 / - % ISO 294-4, 2577		1.3 / -	%	Sim. to ISO 62
Molding shrinkage (parallel) 0.1 / - % ISO 294-4, 2577	Density	1650 / -	kg/m³	ISO 1183
Molding shrinkage (parallel) 0.1 / - % ISO 294-4, 2577				
	Rheo/Phys properties	dry / cond	Unit	Test Standard
Molding shrinkage (normal) 0.5 / - % ISO 294-4, 2577	Molding shrinkage (parallel)	0.1 / -		ISO 294-4, 2577
	Molding shrinkage (normal)	0.5 / -	%	ISO 294-4, 2577

Characteristics Processing Industry & Consumer goods Injection Molding Housewares, Medical devices, Sanitary, water and gas supply Delivery form Food Contact Granules NSF 51, EU Requirements, FDA Regional Availability Potable Water Contact North America, Europe, Asia Pacific, South and Central America, NSF 61, KTW, WRAS, ACS, DVGW W270

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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.

Near East/Africa

Product Attributes

Hydrolysis resistant

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