

Grivory HT3Z black 9564 PA*

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Product Texts

Product designation according to ISO 1874:

PA10T/X, MH,12-030

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	2600 / 2600	MPa	ISO 527-1/-2
Yield stress	80 / 80	MPa	ISO 527-1/-2
Yield strain	6/6	%	ISO 527-1/-2
Stress at break	60 / 60	MPa	ISO 527-1/-2
Strain at break	11 / 11	%	ISO 527-1/-2
Charpy impact strength (+23°C)	N / N	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	80 / 50	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	12 / 12	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	12 / 12	kJ/m²	ISO 179/1eA

Mechanical properties (TPE)	dry / cond	Unit	Test Standard
Ball indentation hardness	140 / 140	MPa	ISO 2039-1

Thermal properties	dry / cond	Unit	Test Standard
Melting temperature (10°C/min)	295 / -	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	115 / -	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	160 / -	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	80 / -	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	80 / -	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)	240	°C	EMS

Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	1E10 / 1E10	Ohm*m	IEC 60093
Surface resistivity	-/1E11	Ohm	IEC 60093
Electric strength	33 / 33	kV/mm	IEC 60243-1
Comparative tracking index	- / 600	-	IEC 60112
Other properties	dry / cond	Unit	Test Standard
Water absorption	2.6 / -	%	Sim. to ISO 62
Humidity absorption	1.5 / -	%	Sim. to ISO 62
Density	1130 / -	kg/m³	ISO 1183
Rheo/Phys properties	dry / cond	Unit	Test Standard
Molding shrinkage (parallel)	2.0 / -	%	ISO 294-4, 2577
Molding shrinkage (normal)	1.8 / -	%	ISO 294-4, 2577

Characteristics

Processing	Product Attributes
Injection Molding	Hydrolysis resistant, Improved flowability and demoulding, Improved alcohol resistance, Bio based Polyamide, Co Polyamide,
Delivery form	Partially aromatic Polyamide
Granules	

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Special Characteristics

Improved heat resistance

Regional Availability

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

Automotive

Air intake sytems, Hydraulic systems, Automotive electr. and electronics, lighting, Fuel systems, Powertrain and Chassis

Electricals & Electronics

Electrical appliances, Electrical equipment, Connectors, Energy distribution, Lighting, Mobile phones and other portable devices

Industry & Consumer goods

Hydraulics & Pneumatics, Mechanical Engineering, Power transmission

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