

Grivory XE 4217 black 9233

PA6T/66-GF45

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Product Texts

Product designation according to ISO 1874:

PA6T/66+X, MH, 14-110, GF45

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	15000 / 13000	MPa	ISO 527-1/-2
Stress at break	230 / 165	MPa	ISO 527-1/-2
Strain at break	2.7 / 2.7	%	ISO 527-1/-2
Charpy impact strength (+23°C)	70 / 80	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	60 / 60	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	11 / 11	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	9 / 9	kJ/m ²	ISO 179/1eA

Mechanical properties (TPE)	dry / cond	Unit	Test Standard
Ball indentation hardness	270 / 250	MPa	ISO 2039-1

Thermal properties	dry / cond	Unit	Test Standard
Melting temperature (10°C/min)	300 / -	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	240 / -	°C	ISO 75-1/-2
Temp. of deflection under load (8.00 MPa)	170 / -	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	20 / -	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	70 / -	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)	150	°C	ISO 2578
Max. usage temperature (short term)	270	°C	EMS

Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	1E10 / 1E10	Ohm*m	IEC 60093
Surface resistivity	- / 1E12	Ohm	IEC 60093
Electric strength	45 / 45	kV/mm	IEC 60243-1
Comparative tracking index	- / 600	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	4.3 / -	%	Sim. to ISO 62
Humidity absorption	1.7 / -	%	Sim. to ISO 62
Density	1580 / -	kg/m ³	ISO 1183

Rheo/Phys properties	dry / cond	Unit	Test Standard
Molding shrinkage (parallel)	0.1 / -	%	ISO 294-4, 2577
Molding shrinkage (normal)	0.8 / -	%	ISO 294-4, 2577

Characteristics

Processing

Injection Molding

Delivery form

Granules

Product Attributes

Improved alcohol resistance, Co Polyamide, Partially aromatic Polyamide

Automotive

Air intake systems, Hydraulic systems, Fuel systems, Powertrain and Chassis, Interior

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Special Characteristics

Improved heat resistance

Electricals & Electronics

Electrical equipment

Regional Availability

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

Industry & Consumer goods

Hydraulics & Pneumatics, Mechanical Engineering, Power
transmission, Tools & Accessories
