

Grilamid 2D 25 H HM black 9992

PA12

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Product Texts

ISO 1874: PA612, HHL, 22-020

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	1900 / 1300	MPa	ISO 527-1/-2
Yield stress	50 / 45	MPa	ISO 527-1/-2
Yield strain	5 / 17	%	ISO 527-1/-2
Strain at break	>50 / >50	%	ISO 527-1/-2
Charpy impact strength (+23°C)	N / N	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	100 / 100	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	16 / 16	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	11 / 11	kJ/m ²	ISO 179/1eA

Mechanical properties (TPE)	dry / cond	Unit	Test Standard
Ball indentation hardness	100 / 70	MPa	ISO 2039-1

Thermal properties	dry / cond	Unit	Test Standard
Melting temperature (10°C/min)	217 / -	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	55 / -	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	115 / -	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	100 / -	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	100 / -	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

Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	1E9 / 1E9	Ohm*m	IEC 60093
Surface resistivity	- / 1E11	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	2.5 / -	%	Sim. to ISO 62
Humidity absorption	1.2 / -	%	Sim. to ISO 62
Density	1040 / -	kg/m ³	ISO 1183

Characteristics

Processing

Other Extrusion

Delivery form

Granules

Special Characteristics

High impact or impact modified, Light stabilized or stable to light

Regional Availability

Product Attributes

Flexible, High viscosity, Hydrolysis resistant, Bio based Polyamide

Automotive

Hydraulic systems

Electricals & Electronics

Cables & Tubes

Industry & Consumer goods

Hydraulics & Pneumatics