

Grilamid XE 4155 black 9992

PA612-I

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Product Texts

Product-nomenclature according to ISO 1874:
PA612-HI, EW, 24-010

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	1500 / 950	MPa	ISO 527-1/-2
Yield stress	40 / 35	MPa	ISO 527-1/-2
Yield strain	5 / 20	%	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)	N / N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	75 / N	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	20 / 20	kJ/m ²	ISO 179/1eA

Mechanical properties (TPE)	dry / cond	Unit	Test Standard
Shore D hardness (15s)	72 / 68	-	ISO 868

Thermal properties	dry / cond	Unit	Test Standard
Melting temperature (10°C/min)	213 / -	°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)	70 / -	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	180 / -	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	110 / -	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 (short term)	140	°C	EMS

Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	- / 1E8	Ohm*m	IEC 60093
Surface resistivity	- / 1E10	Ohm	IEC 60093
Electric strength	37 / -	kV/mm	IEC 60243-1

Other properties	dry / cond	Unit	Test Standard
Water absorption	2.3 / -	%	Sim. to ISO 62
Humidity absorption	1 / -	%	Sim. to ISO 62
Density	1020 / -	kg/m ³	ISO 1183

Characteristics

Processing

Other Extrusion, Profile Extrusion

Delivery form

Granules

Special Characteristics

High impact or impact modified, Improved heat resistance

Regional Availability

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

Product Attributes

High viscosity, Hydrolysis resistant

Automotive

Air intake systems, Compressed air systems, Hydraulic systems, Automotive electr. and electronics, lighting, Cooling and climate control

Electricals & Electronics

Cables & Tubes