

Grilamid 2D 25 W 20 X nat
 PA612-I

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Product Texts

 Product-nomenclature according to ISO 1874:
 PA612-HIP, E, 22-005

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	600 / 400	MPa	ISO 527-1/-2
Stress at 50% strain	30 / 25	MPa	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)	N / N	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	15 / 13	kJ/m ²	ISO 179/1eA

Mechanical properties (TPE)	dry / cond	Unit	Test Standard
Ball indentation hardness	39 / 30	MPa	ISO 2039-1

Thermal properties	dry / cond	Unit	Test Standard
Melting temperature (10°C/min)	210 / -	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	50 / -	°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)	200 / -	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	120 / -	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)	150	°C	EMS

Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	1E8 / 1E8	Ohm*m	IEC 60093
Surface resistivity	- / 1E10	Ohm	IEC 60093
Electric strength	37 / 37	kV/mm	IEC 60243-1
Comparative tracking index	- / 600	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	2.1 / -	%	Sim. to ISO 62
Humidity absorption	0.9 / -	%	Sim. to ISO 62
Density	1040 / -	kg/m ³	ISO 1183

Characteristics
Processing

Other Extrusion, Profile Extrusion

Delivery form

Granules

Additives

Plasticizer

Special Characteristics

 High impact or impact modified, Light stabilized or stable to light,
 Improved heat resistance

Product Attributes

Flexible, High viscosity, Hydrolysis resistant

Automotive

 Air intake systems, Compressed air systems, Hydraulic systems,
 Cooling and climate control, Fuel systems, Powertrain and Chassis

Electricals & Electronics

Cables & Tubes

Industry & Consumer goods

Hydraulics & Pneumatics, Mechanical Engineering

