

Grilamid® 2D 25 H HM black 9992

Polyamide 6/12 Copolymer

EMS-GRIVORY

Message:

Grilamid® 2D 25 H HM black 9992 is a Polyamide 6/12 Copolymer (Nylon 6/12) material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. The processing method is: extrusion.

Grilamid® The main features of 2D 25 H HM black 9992 are:

flame retardant/rated flame

Impact modification

high viscosity

environmental protection/green

Good flexibility

Typical application areas include:

Wire and cable

Hose

General Information				
Additive		Impact modifier		
		UV stabilizer		
Features		Impact modification		
		Impact resistance, good		
		Updatable resources		
		Good flexibility		
		Hydrolysis resistance		
		Viscosity, High		
Uses		Wire and cable applications		
		Pipe fittings		
		Pneumatic application		
		Hydraulic application		
Appearance		Black		
Forms		Particles		
Processing Method		Extrusion		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.04	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturated, 23°C	2.5	--	%	ISO 62
Equilibrium, 23°C, 50% RH	1.2	--	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	100	70.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method

Tensile Modulus	1900	1300	MPa	ISO 527-2
Tensile Stress (Yield)	50.0	45.0	MPa	ISO 527-2
Tensile Strain				ISO 527-2
Yield	5.0	17	%	ISO 527-2
Fracture	> 50	> 50	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	11	11	kJ/m ²	ISO 179/1eA
23°C	16	16	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	100	100	kJ/m ²	ISO 179/1eU
23°C	No Break	No Break		ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	115	--	°C	ISO 75-2/B
1.8 MPa, not annealed	55.0	--	°C	ISO 75-2/A
Melting Temperature ¹	217	--	°C	ISO 11357-3
Linear thermal expansion coefficient				ISO 11359-2
Flow	1.0E-4	--	cm/cm/°C	ISO 11359-2
Lateral	1.0E-4	--	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+11	ohms	IEC 60093
Volume Resistivity	1.0E+11	1.0E+11	ohms·cm	IEC 60093
Dielectric Strength	35	35	kV/mm	IEC 60243-1
Comparative Tracking Index	--	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification (0.8 mm)	HB	--		IEC 60695-11-10, -20
Additional Information	Dry	Conditioned		Test Method
ISO Type	PA612, HHL, 22-020	--		ISO 1874
NOTE				
1.	10°C/min			

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