

Grilamid® XE 4107 black 9992

Polyamide 6/12 Copolymer

EMS-GRIVORY

Message:

Grilamid® XE 4107 black 9992 is a Polyamide 6/12 Copolymer (Nylon 6/12) material. It is available in Asia Pacific, Europe, or North America for injection molding.

Important attributes of Grilamid® XE 4107 black 9992 are:

- Flame Rated
- Chemical Resistant
- Good UV Resistance
- Typical applications include:
 - Automotive
 - Electrical/Electronic Applications
 - Appliances
 - Consumer Goods
 - Engineering/Industrial Parts

General Information				
Features		Alcohol Resistant		
		Good UV Resistance		
		Hydrolysis Resistant		
Uses		Appliance Components		
		Automotive Applications		
		Automotive Exterior Parts		
		Automotive Interior Parts		
		Connectors		
		Consumer Applications		
		Electrical/Electronic Applications		
		Engineering Parts		
		Household Goods		
		Hydraulic Applications		
		Industrial Applications		
		Pneumatic Applications		
		Power/Other Tools		
		Sporting Goods		
Appearance		Black		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.40	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.0	--	%	

Flow	0.30	--	%	
Water Absorption				ISO 62
Saturation, 23°C	1.8	--	%	
Equilibrium, 23°C, 50% RH	0.80	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	200	155	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	12500	9500	MPa	ISO 527-2
Tensile Stress (Break)	175	135	MPa	ISO 527-2
Tensile Strain (Break)	4.0	5.5	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	11	11	kJ/m ²	
23°C	16	17	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	90	85	kJ/m ²	
23°C	85	85	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	185	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	115	--	°C	ISO 75-2/C
Continuous Use Temperature				Internal Method
-- ¹	90.0 to 120	--	°C	
-- ²	180	--	°C	
Melting Temperature ³	215	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	2.0E-5	--	cm/cm/°C	
Transverse	1.0E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+11	ohms	IEC 60093
Volume Resistivity	1.0E+12	1.0E+12	ohms·cm	IEC 60093
Electric Strength	36	36	kV/mm	IEC 60243-1
Comparative Tracking Index	--	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification (0.800 mm)	HB	--		IEC 60695-11-10, -20
Additional Information	Dry	Conditioned		Test Method
ISO Type	PA612, MHR, 18-120, GF40	--		ISO 1874

NOTE

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|----|------------|
| 1. | Long Term |
| 2. | Short Term |
| 3. | 10°C/min |

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

