

Grilamid® XE 3926 black 9992

Polyamide 12

EMS-GRIVORY

Message:

Grilamid® XE 3926 black 9992 is a Polyamide 12 (Nylon 12) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for extrusion or injection molding.

Important attributes of Grilamid® XE 3926 black 9992 are:

- Flame Rated
- RoHS Compliant
- Good Mold Release
- Typical applications include:
 - Automotive
 - Consumer Goods
 - Electrical/Electronic Applications
 - Engineering/Industrial Parts
 - Hose/Tubing

General Information				
Features		Good Flow		
		Good Mold Release		
Uses		Automotive Applications		
		Consumer Applications		
		Electrical/Electronic Applications		
		Engineering Parts		
		Hydraulic Applications		
		Industrial Applications		
		Pneumatic Applications		
		Tubing		
		Wire & Cable Applications		
RoHS Compliance		RoHS Compliant		
Appearance		Black		
Forms		Granules		
Processing Method		Extrusion		
		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.01	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	1.5	--	%	
Equilibrium, 23°C, 50% RH	0.70	--	%	
Hardness	Dry	Conditioned	Unit	Test Method

Ball Indentation Hardness	--	70.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	--	1100	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield	--	40.0	MPa	
Break	--	50.0	MPa	
Tensile Strain				ISO 527-2
Yield	--	15	%	
Break	> 50	--	%	
Nominal Tensile Strain at Break	--	> 50	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	--	6.0	kJ/m ²	
23°C	--	7.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	--	No Break		
23°C	--	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	115	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	45.0	--	°C	ISO 75-2/A
Continuous Use Temperature				Internal Method
-- ¹	80.0 to 100	--	°C	
-- ²	150	--	°C	
Melting Temperature ³	178	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.2E-4	--	cm/cm/°C	
Transverse	1.4E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+12	ohms	IEC 60093
Volume Resistivity	--	1.0E+13	ohms · cm	IEC 60093
Electric Strength	--	32	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	PA12, EHL, 14-010	--		ISO 1874

NOTE

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

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