

Grilamid® XE 3959 black 9992

Polyamide 610

EMS-GRIVORY

Message:

Grilamid® XE 3959 black 9992 is a Polyamide 610 (Nylon 610) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for extrusion.

Important attributes of Grilamid® XE 3959 black 9992 are:

- Flame Rated
- Eco-Friendly/Green
- High Viscosity
- Typical applications include:
 - Electrical/Electronic Applications
 - Appliances
 - Automotive
 - Consumer Goods
 - Engineering/Industrial Parts

General Information				
Features		High Viscosity		
		Renewable Resource Content		
Uses	Appliance Components			
	Automotive Applications			
	Connectors			
	Consumer Applications			
	Electrical/Electronic Applications			
	Engineering Parts			
	Household Goods			
	Hydraulic Applications			
	Industrial Applications			
	Pneumatic Applications			
	Power/Other Tools			
	Sporting Goods			
	Tubing			
	Wire & Cable Applications			
Appearance		Black		
Forms		Granules		
Processing Method		Extrusion		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.07	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.90	--	%	
Flow	0.90	--	%	

Water Absorption				ISO 62
Saturation, 23°C	3.3	--	%	
Equilibrium, 23°C, 50% RH	1.6	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	120	70.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2200	1200	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield	60.0	45.0	MPa	
Break	40.0	60.0	MPa	
Tensile Strain				ISO 527-2
Yield	5.0	18	%	
Break	> 50	> 50	%	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	9.0	8.0	kJ/m ²	
23°C	8.0	18	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	No Break		
23°C	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	150	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	55.0	--	°C	ISO 75-2/A
Continuous Use Temperature				Internal Method
-- ¹	110 to 130	--	°C	
-- ²	160	--	°C	
Melting Temperature ³	220	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.1E-4	--	cm/cm/°C	
Transverse	1.1E-4	--	cm/cm/°C	
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
Electric Strength	--	34	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	PA610, EH, 22-010	--	ISO 1874

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

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