

Grilamid® XE 4208 black 9992

Polyamide 612

EMS-GRIVORY

Message:

Grilamid® XE 4208 black 9992 is a Polyamide 612 (Nylon 612) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for extrusion or profile extrusion.

Important attributes of Grilamid® XE 4208 black 9992 are:

- Flame Rated
- Plasticized
- Heat Resistant
- High Viscosity
- Impact Resistant
- Typical applications include:
 - Automotive
 - Electrical/Electronic Applications
 - Hose/Tubing
 - Lighting Applications
 - Wire & Cable

General Information				
Additive	Plasticizer			
Features	High Heat Resistance			
	High Impact Resistance			
	High Viscosity			
	Hydrolysis Resistant			
	Plasticized			
Uses	Automotive Applications			
	Automotive Electronics			
	Electrical/Electronic Applications			
	Hydraulic Applications			
	Lighting Applications			
	Pneumatic Applications			
	Profiles			
	Tubing			
	Wire & Cable Applications			
Appearance	Black			
Forms	Granules			
Processing Method	Extrusion			
	Profile Extrusion			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.03	--	g/cm³	ISO 1183

Water Absorption				ISO 62
Saturation, 23°C	2.0	--	%	
Equilibrium, 23°C, 50% RH	0.80	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	55.0	40.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	920	640	MPa	ISO 527-2
Tensile Stress (50% Strain)	35.0	30.0	MPa	ISO 527-2
Tensile Strain (Break)	> 50	> 50	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	16	16	kJ/m ²	
23°C	No Break	No Break		
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	100	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	50.0	--	°C	ISO 75-2/A
Melting Temperature ¹	213	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	2.3E-4	--	cm/cm/°C	
Transverse	1.3E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+10	1.0E+10	ohms·cm	IEC 60093
Electric Strength	37	37	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-HIP, E, 22-010	--		ISO 1874
NOTE				
1.	10°C/min			

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