

Grilamid® XE 4188 black 9992

Polyamide 612

EMS-GRIVORY

Message:

Grilamid® XE 4188 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.

Important attributes of Grilamid® XE 4188 black 9992 are:

- Chemical Resistant
- Good UV Resistance
- Heat Resistant
- High Viscosity
- Impact Resistant
- Typical applications include:
 - Automotive
 - Electrical/Electronic Applications
 - Hose/Tubing
 - Outdoor Applications
 - Wire & Cable

General Information				
Features		Alcohol Resistant		
		Good UV Resistance		
		High Heat Resistance		
		High Impact Resistance		
		High Viscosity		
		Hydrolysis Resistant		
Uses		Automotive Applications		
		Electrical/Electronic Applications		
		Hydraulic Applications		
		Outdoor Applications		
		Pneumatic Applications		
		Tubing		
		Wire & Cable Applications		
Appearance		Black		
Forms		Granules		
Processing Method		Extrusion		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.04	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.40	--	%	
Flow	3.0	--	%	
Water Absorption				ISO 62

Saturation, 23°C	2.7	--	%	
Equilibrium, 23°C, 50% RH	1.2	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	100	70.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1800	1300	MPa	ISO 527-2
Tensile Stress (Yield)	50.0	45.0	MPa	ISO 527-2
Tensile Strain (Yield)	5.0	20	%	ISO 527-2
Nominal Tensile Strain at Break	> 50	> 50	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	12	12	kJ/m ²	
23°C	50	90	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	120	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	50.0	--	°C	ISO 75-2/A
Melting Temperature ¹	218	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.6E-4	--	cm/cm/°C	
Transverse	1.1E-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	38	38	kV/mm	IEC 60243-1
Comparative Tracking Index	--	600	V	IEC 60112
Additional Information	Dry	Conditioned		Test Method
ISO Type	PA612, EH, 18-020	--		ISO 1874
NOTE				
1.	10°C/min			

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