

Grilamid® XE 4192 black 9992

Polyamide 610
EMS-GRIVORY

Message:

Grilamid® XE 4192 black 9992 is a Polyamide 610 (Nylon 610) material filled with 30% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Grilamid® XE 4192 black 9992 are:

- Flame Rated
- Eco-Friendly/Green
- Heat Resistant
- Impact Resistant

Typical applications include:

- Automotive
- Engineering/Industrial Parts
- Household Applications
- Lighting Applications

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Features		High Heat Resistance		
		High Impact Resistance		
		Renewable Resource Content		
Uses		Automotive Applications		
		Automotive Electronics		
		Engineering Parts		
		Household Goods		
		Hydraulic Applications		
		Lighting Applications		
		Pneumatic Applications		
Appearance		Black		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.31	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.80	--	%	
Flow	0.20	--	%	
Water Absorption				ISO 62
Saturation, 23°C	4.0	--	%	
Equilibrium, 23°C, 50% RH	1.0	--	%	
Hardness	Dry	Conditioned	Unit	Test Method

Ball Indentation Hardness	180	120	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9000	7000	MPa	ISO 527-2
Tensile Stress (Break)	155	120	MPa	ISO 527-2
Tensile Strain (Break)	4.0	6.0	%	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	18	16	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	90	90	kJ/m ²	
23°C	95	95	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	200	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	120	--	°C	ISO 75-2/C
Maximum Use Temperature				Internal Method
Long Term	100 to 130	--	°C	
Short Term	160	--	°C	
ISO Type	PA 610, MHR, 22-090, GF30	--		ISO 1874
Melting Temperature ¹	222	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	2.5E-5	--	cm/cm/°C	
Transverse	8.0E-5	--	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	45	45	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
NOTE				
1.	10°C/min			

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