

Grilamid® XE 4104 black 9992

Polyamide 610

EMS-GRIVORY

Message:

Grilamid® XE 4104 black 9992 is a Polyamide 610 (Nylon 610) material. It is available in Asia Pacific, Europe, or North America for injection molding. Important attributes of Grilamid® XE 4104 black 9992 are:

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

General Information				
Features		Good UV Resistance		
		Renewable Resource Content		
Uses	Appliance Components			
	Automotive Applications			
	Automotive Exterior Parts			
	Automotive Interior Parts			
	Connectors			
	Consumer Applications			
	Electrical/Electronic Applications			
	Engineering Parts			
	Household Goods			
	Hydraulic Applications			
	Industrial Applications			
	Pneumatic Applications			
	Power/Other Tools			
	Sporting Goods			
Appearance		Black		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.42	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.1	--	%	
Flow	0.20	--	%	

Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	215	155	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	12500	10000	MPa	ISO 527-2
Tensile Stress (Break)	185	140	MPa	ISO 527-2
Tensile Strain (Break)	3.0	5.0	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	10	10	kJ/m ²	
23°C	13	16	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	90	85	kJ/m ²	
23°C	80	85	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	205	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	160	--	°C	ISO 75-2/C
Continuous Use Temperature				Internal Method
-- ¹	100 to 130	--	°C	
-- ²	160	--	°C	
Melting Temperature ³	225	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+11	ohms	IEC 60093
Volume Resistivity	1.0E+12	1.0E+12	ohms·cm	IEC 60093
Electric Strength	36	5.0	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, MHR, 22-090, GF40	--		ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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