

Grilamid® XE 4155 black 9992

Polyamide 612

EMS-GRIVORY

Message:

Grilamid® XE 4155 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 4155 black 9992 are:

Flame Rated

Heat Resistant

High Viscosity

Impact Resistant

Typical applications include:

Automotive

Electrical/Electronic Applications

Hose/Tubing

Lighting Applications

Wire & Cable

General Information				
Features		High Heat Resistance		
		High Impact Resistance		
		High Viscosity		
		Hydrolysis Resistant		
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	1.02	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	2.3	--	%	

Equilibrium, 23°C, 50% RH	1.0	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	72	68		ISO 868
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1500	950	MPa	ISO 527-2
Tensile Stress (Yield)	40.0	35.0	MPa	ISO 527-2
Tensile Strain				ISO 527-2
Yield	5.0	20	%	
Break	> 50	> 50	%	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	20	20	kJ/m ²	
23°C	75 kJ/m ²	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	70.0	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	55.0	--	°C	ISO 75-2/A
Melting Temperature ¹	213	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.8E-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	ohms·cm	IEC 60093
Electric Strength	37	--	kV/mm	IEC 60243-1
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-HI, EW, 24-010	--		ISO 1874
NOTE				
1.	10°C/min			

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