

Grilamid® XE 4128 black 9221

Polyamide 610

EMS-GRIVORY

Message:

Grilamid® XE 4128 black 9221 is a Polyamide 610 (Nylon 610) material. It is available in Asia Pacific, Europe, or North America for extrusion.

Important attributes of Grilamid® XE 4128 black 9221 are:

Flame Rated

Eco-Friendly/Green

Typical applications include:

Automotive

Consumer Goods

Industrial Applications

General Information				
Features		Renewable Resource Content		
Uses		Automotive Applications		
		Consumer Applications		
		Hydraulic Applications		
		Industrial Applications		
		Pneumatic 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	1.1	--	%	
Flow	1.2	--	%	
Water Absorption				ISO 62
Saturation, 23°C	1.8	--	%	
Equilibrium, 23°C, 50% RH	4.8	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	60.0	35.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1200	700	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield	35.0	--	MPa	
Break	35.0	30.0	MPa	
Tensile Strain				ISO 527-2
Yield	10	--	%	
Break	> 50	> 50	%	

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	17	18	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	80.0	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	50.0	--	°C	ISO 75-2/A
Melting Temperature ¹	220	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.0E-4	--	cm/cm/°C	
Transverse	1.5E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+13	1.0E+12	ohms·cm	IEC 60093
Electric Strength	33	32	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+X-HI, EH, 22-010	--		ISO 1874
NOTE				
1.	10°C/min			

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