

NEALID XG370

Polyamide + Polyolefin

AD majoris

Message:

NEALID XG370 is a glass fibre reinforced polyamide alloy intended for Injection moulding.

APPLICATIONS

NEALID XG370 has been developed especially for very demanding applications in automotive industry and electrical parts.

Products requiring excellent combination between thermal and mechanical properties.

NEALID XG370 is available in both natural (NEALID XG370) and black (NEALID XG370-8229) but other colours can be provided on request.

General Information				
Filler / Reinforcement		Glass Fiber		
Features		Recyclable Material		
Uses		Automotive Applications		
		Electrical Parts		
Appearance		Black		
		Colors Available		
		Natural Color		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.33	--	g/cm ³	ISO 1183
Molding Shrinkage	0.30 to 0.70	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	0.90	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	10100	9250	MPa	ISO 527-2
Tensile Stress (Break)	132	117	MPa	ISO 527-2
Tensile Strain (Break)	2.0	4.0	%	ISO 527-2
Flexural Modulus	8900	8250	MPa	ISO 178
Flexural Stress	199	178	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	12	13	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	38	40	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	246	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	230	--	°C	ISO 75-2/A

Melting Temperature (DSC)	220	--	°C	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+15	1.0E+15	ohms	DIN 53482
Volume Resistivity	1.0E+15	1.0E+15	ohms·cm	DIN 53482
Comparative Tracking Index (Solution A)	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)	HB	--		UL 94
Glow Wire Flammability Index (2.00 mm)	650	--	°C	IEC 60695-2-12
Injection	Dry	Unit		
Drying Temperature	90.0		°C	
Drying Time	4.0		hr	
Rear Temperature	245 to 270		°C	
Middle Temperature	250 to 280		°C	
Front Temperature	245 to 270		°C	
Nozzle Temperature	245 to 275		°C	
Mold Temperature	60.0 to 100		°C	
Injection Pressure	85.0 to 110		MPa	
Injection Rate	Fast			
Holding Pressure	50.0 to 70.0		MPa	
Screw L/D Ratio	15.0:1.0 to 20.0:1.0			

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