NEALID XG100

Polyamide + Polyolefin

AD majoris

Message:

NEALID XG100 is a 10% glass fibre reinforced polyamide alloy intended for Injection moulding.
APPLICATIONS
NEALID XG100 has been developed especially for very demanding applications in automotive industry and electrical parts.
Products requiring excellent combination between thermal and mechanical properties.
NEALID XG100 is available in both black (NEALID XG100 - 8229) and natural (NEALID XG100) but other colours can be provided on request.

General Information	
Filler / Reinforcement	Glass Fiber,10% Filler by Weight
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	1.14	--	g/cm³	ISO 1183
Molding Shrinkage	0.70 to 1.2	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.3	--	%	

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	4400	4200	MPa	ISO 527-2
Tensile Stress (Break)	120	105	MPa	ISO 527-2
Tensile Strain (Break)	3.5	7.0	%	ISO 527-2
Flexural Modulus	3750	3400	MPa	ISO 178
Flexural Stress	135	120	MPa	ISO 178

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	11	13	kJ/m²	ISO 179
Charpy Unnotched Impact Strength	44	47	kJ/m²	ISO 179

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	190	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	180	--	°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 265		°C	
Middle Temperature	250 to 270		°C	
Front Temperature	255 to 275		°C	
Nozzle Temperature	255 to 275		°C	
Mold Temperature	40.0 to 80.0		°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			

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

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