

NEALID XG307 - 3220

Polyamide 6 + PP

AD majoris

Message:

NEALID XG307-3220 is an alloy of PA6/PP with 30% short glass fibre with UV protection and developed for injection moulding.

APPLICATIONS

NEALID XG307-3220 is designed for very demanding applications in electrical parts and requiring excellent balance on thermal and mechanical properties.

NEALID XG307-3220 is also available in other colours on request.

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Features		Good UV Resistance		
		Recyclable Material		
Uses		Electrical Parts		
Appearance		Colors Available		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.28	--	g/cm ³	ISO 1183
Molding Shrinkage	0.40 to 0.90	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	8500	7800	MPa	ISO 527-2
Tensile Stress (Break)	180	160	MPa	ISO 527-2
Tensile Strain (Break)	3.0	5.5	%	ISO 527-2
Flexural Modulus	7600	7000	MPa	ISO 178
Flexural Stress	175	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-20°C	--	9.0	kJ/m ²	
23°C	13	14	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-20°C	--	30	kJ/m ²	
23°C	41	45	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	200	--	°C	ISO 75-2/B

1.8 MPa, Unannealed	186	--	°C	ISO 75-2/A
Melting Temperature (DSC)	220	--	°C	ISO 3146
CLTE - Flow	2.7E-5	--	cm/cm/°C	ISO 11359-2
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			

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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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