

NEALID XN093 - 8428

Polyamide

AD majoris

Message:

NEALID XN093 - 8428 is a polyamide alloy with detergent additives intended for injection moulding.

APPLICATIONS

NEALID XN093 - 8428 has been developed especially for very demanding applications in automotive industry, electrical and appliances parts requiring excellent combination between thermal and mechanical properties.

General Information			
Features	Recyclable Material		
Uses	Appliance Components		
	Automotive Applications		
	Electrical Parts		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.03	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.0	g/10 min	ISO 1133
Molding Shrinkage	1.0 to 1.4	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	0.50	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2400	MPa	ISO 527-2
Tensile Stress (Break)	47.0	MPa	ISO 527-2
Tensile Strain (Yield)	5.0	%	ISO 527-2
Flexural Modulus	1850	MPa	ISO 178
Flexural Stress	76.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	10	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	No Break		ISO 179
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	220	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	DIN 53482
Volume Resistivity	1.0E+15	ohms · cm	DIN 53482
Comparative Tracking Index (Solution A)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
Injection	Nominal Value	Unit	

Drying Temperature	80.0	°C
Drying Time	3.0	hr
Rear Temperature	225 to 245	°C
Middle Temperature	230 to 250	°C
Front Temperature	235 to 255	°C
Nozzle Temperature	230 to 260	°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

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