

NEALID NW300 - 8229

Polyamide + PP

AD majoris

Message:

NEALID NW300 - 8229 is a 30 % chemically coupled mineral reinforced alloy intended for injection moulding. The base polypropylene has been modified resulting in high performance engineering properties.

APPLICATIONS

NEALID NW300 - 8229 can be used for technically demanding components such as:

Electrical appliance parts

Power tool housings

Electrical components

Automotive parts

Sport and leisure products

Improved properties of NEALID NW300 - 8229 compared to standard chemically coupled mineral polypropylene compound:

Good stiffness

Heat resistance

Improved surface properties

Increased creep resistance at elevated temperatures

General Information			
Filler / Reinforcement	Mineral,30% Filler by Weight		
Features	Chemically Coupled		
	Good Stiffness		
	Medium Heat Resistance		
	Recyclable Material		
Uses	Appliance Components		
	Automotive Applications		
	Electrical Parts		
	Housings		
	Sporting Goods		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183
Molding Shrinkage	1.2 to 1.7	%	
Water Absorption (23°C, 24 hr)	0.14	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3200	MPa	ISO 527-2/1
Tensile Stress (Break)	55.0	MPa	ISO 527-2/50
Tensile Strain (Break)	15	%	ISO 527-2/50
Flexural Modulus ¹	2800	MPa	ISO 178
Flexural Stress	70.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	2.5	kJ/m ²	
23°C	3.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	143	°C	ISO 75-2/B
1.8 MPa, Unannealed	90.0	°C	ISO 75-2/A
Vicat Softening Temperature	110	°C	ISO 306/B
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	DIN 53482
Volume Resistivity	1.0E+14	ohms·cm	DIN 53482
Dielectric Constant	3.00		DIN 53483
Dissipation Factor (1 kHz)	0.030		DIN 53483
Comparative Tracking Index	> 600	V	DIN 53480
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	255 to 280	°C	
Mold Temperature	60.0 to 80.0	°C	
Injection Rate	Slow-Moderate		
NOTE			
1.	2.0 mm/min		

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