Next Nylon 6 Prime Series NG50-01NC

Polyamide 6

Next Polymers Ltd.

Message:

Description
PA6 Glass Fiber Reinforced Natural Compound
Product Applications
This grade indicated for pieces that require dimensional stability with good mechanical property like impact at higher temperature such as interlocking parts, zero gap piston seals.
Benefits
High Dimensional stability, Stiffness, impact resistance, and Execellent thermal resistance.

General Information	
Filler / Reinforcement	Glass Fiber,50% Filler by Weight
Features	Good Dimensional Stability Good Impact Resistance Good Stiffness
Uses	Engineering Parts Machine/Mechanical Parts
Agency Ratings	EC 1907/2006 (REACH)
RoHS Compliance	RoHS Compliant
Appearance	Natural Color
Processing Method	Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.56	--	g/cm³	ASTM D792
Molding Shrinkage				ASTM D955
Flow	0.15	--	%	
Across Flow	0.48	--	%	
Water Absorption				ASTM D570
23°C, 24 hr	1.4	--	%	
Saturation [1]	4.5	--	%	

Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785
M-Scale	120	--		
R-Scale	130	--		

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength	230	155	MPa	ASTM D638
Tensile Elongation (Break)	3.0	5.0	%	ASTM D638
Flexural Modulus	14000	--	MPa	ASTM D790
Flexural Strength	310	--	MPa	ASTM D790

Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact (23°C)	200	--	J/m	ASTM D256
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed	220	--	°C	
1.8 MPa, Unannealed	215	--	°C	
Melting Temperature	220	--	°C	ASTM D2117
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Surface Resistivity	--	1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+13	ohms·cm	IEC 60093
Electric Strength	25	20	kV/mm	IEC 60243-1
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Flame Rating (0.800 mm)	HB	--		UL 94
Injection	**Dry**	**Unit**		
Drying Temperature - Hot Air Dryer	80.0		°C	
Drying Time	4.0 to 6.0		hr	
Suggested Max Moisture	0.20		%	
Rear Temperature	240 to 250		°C	
Middle Temperature	260 to 270		°C	
Front Temperature	270 to 280		°C	
Mold Temperature	80.0 to 100		°C	
NOTE				
1.	Immersed			

Recommended distributors for this material

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