

Next Nylon 6 Industrial Series NG20-02BL

Polyamide 6

Next Polymers Ltd.

Message:

Description
PA6 Glass Fiber Reinforced Blue Compound
Product Applications
Impacted moldings & molding with high strength applied in automotive, electrical, engineering and consumer goods industry
Benefits
Offering good combination between thermal and mechanical properties

General Information				
Filler / Reinforcement		Glass Fiber,20% Filler by Weight		
Uses		Automotive Applications		
		Consumer Applications		
		Electrical/Electronic Applications		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS Compliant		
Appearance		Blue		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.30	--	g/cm ³	ASTM D792
Molding Shrinkage				ASTM D955
Flow	0.32	--	%	
Across Flow	0.85	--	%	
Water Absorption				ASTM D570
23°C, 24 hr	2.0	--	%	
Saturation ¹	7.5	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785
M-Scale	110	--		
R-Scale	120	--		
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength	110	75.0	MPa	ASTM D638
Tensile Elongation (Break)	4.0	7.0	%	ASTM D638
Flexural Modulus	5800	2500	MPa	ASTM D790
Flexural Strength	160	--	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact (23°C)	59	110	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method

Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed	215	--	°C	
1.8 MPa, Unannealed	190	--	°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+15	ohms·cm	IEC 60093
Electric Strength	30	25	kV/mm	IEC 60243-1
Comparative Tracking Index	550	--	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	250 to 260		°C	
Front Temperature	260 to 265		°C	
Mold Temperature	65.0 to 85.0		°C	
NOTE				
1.	Immersed			

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