Next Nylon 6 Prime Series NM40-01BK

Polyamide 6

Next Polymers Ltd.

Message:

Description
PA6 Mineral Fillled Black compound
Product Applications
Generally recomended for application such as marine hardware, brackets, fitting, bobbins, and power tool housing
Benefits
High stiffness, dimensional stability including low warp and resistance to sink mark

General Information	
Filler / Reinforcement	Mineral filler, 40% filler by weight
Features	Good dimensional stability Low warpage Rigidity, high
Uses	Ship application Accessories Shell
Agency Ratings	EC 1907/2006 (REACH)
RoHS Compliance	RoHS compliance
Appearance	Black
Processing Method	Injection molding

Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.49	--	g/cm³	ASTM D792
Molding Shrinkage				ASTM D955
Flow	0.65	--	%	ASTM D955
Transverse flow	0.65	--	%	ASTM D955
Water Absorption				ASTM D570
23°C, 24 hr	1.5	--	%	ASTM D570
Saturation [1]	5.7	--	%	ASTM D570

Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785
Class m	105	--		ASTM D785
Class r	120	--		ASTM D785

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	6400	3800	MPa	ASTM D638
Tensile Strength	85.0	60.0	MPa	ASTM D638
Tensile Elongation (Yield)	4.0	15	%	ASTM D638
Flexural Modulus	5200	--	MPa	ASTM D790

Flexural Strength	140	70.0	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact (23°C)	59	--	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, not annealed	190	--	°C	ASTM D648
1.8 MPa, not annealed	95.0	--	°C	ASTM D648
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	--	ohms·cm	IEC 60093
Dielectric Strength	30	--	kV/mm	IEC 60243-1
Comparative Tracking Index	500	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.800 mm)	HB	--		UL 94
Additional Information				
干燥 This grade is not suitable for food contact, medical devices or toy applications				
Injection	Dry	Unit		
Drying Temperature - Hot Air Dryer	80.0		°C	
Drying Time	4.0 - 6.0		hr	
Suggested Max Moisture	0.20		%	
Rear Temperature	260 - 270		°C	
Middle Temperature	270 - 280		°C	
Front Temperature	270 - 280		°C	
Mold Temperature	80.0 - 95.0		°C	
NOTE				
1.	Immersed			

Recommended distributors for this material

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