

Mapex AN0720SB-02

Polyamide 6
Ginar Technology Co., LTD.

Message:
Mapex AN0720SB-02 is a 30% glass-fibre Reinforced nylon 6 heat stabilized

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Additive	heat stabilizer		
Features	Highlight		
	Solvent resistance		
	Good formability		
	Good electrical performance		
	Good chemical resistance		
	Good wear resistance		
	Good weather resistance		
	Fuel resistance		
	Heat resistance, high		
	Oil resistance		
Thermal Stability			
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.36	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage - Flow (1.60 mm)	0.30 - 0.50	%	ASTM D955
Water Absorption			
24 hr	2.4	%	ASTM D570
23°C, 24 hr	2.4	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	147	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Flexural Modulus	9120	MPa	ISO 178
Flexural Stress	225	MPa	ISO 178
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	210	°C	ASTM D648, ISO 75-2/A
Melting Temperature	220	°C	DSC

CLTE - Flow	3.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	2.0E+15	ohms·cm	IEC 60093
Dielectric Strength (2.00 mm)	26	kV/mm	ASTM D149, IEC 60243-1
Arc Resistance	135	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.20 mm)	HB		UL 94
Additional Information			
Notched Izod Impact Strength, ISO 180/1: 100 J/mArc Resistance, ASTM D495: 130 to 140 secDielectric Strength, ISO 243: 26 kV/mmThe value listed as Volume Resistance ICE 60093, was tested in accordance with IEC 167.			
Injection	Nominal Value	Unit	
Drying Temperature	90.0	°C	
Drying Time	4.0	hr	
Rear Temperature	240 - 270	°C	
Middle Temperature	240 - 270	°C	
Front Temperature	240 - 270	°C	
Nozzle Temperature	240 - 250	°C	
Mold Temperature	30.0 - 100	°C	
Injection Pressure	50.0 - 120	MPa	
Injection Rate	Moderate-Fast		
Holding Pressure	30.0 - 80.0	MPa	
Back Pressure	0.00 - 0.300	MPa	
Screw Speed	60 - 120	rpm	

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

