

Abstron IMC-45M

Polycarbonate + ABS

Bhansali Engineering Polymers Limited

Message:

ABS-polycarbonate alloys for High service temperature applications

General Information			
Features	Heat resistance, high		
Uses	High temperature application		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 - 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	113		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	53.9	MPa	ASTM D638
Flexural Modulus (6.40 mm)	2300	MPa	ASTM D790
Flexural Strength (Yield, 6.40 mm)	83.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
3.20 mm	590	J/m	ASTM D256
6.40 mm	440	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed)	110	°C	ASTM D648
Vicat Softening Temperature	120	°C	ASTM D1525 ²
Flammability	Nominal Value		Test Method
Flame Rating (3.20 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	105 - 110	°C	
Drying Time	5.0 - 7.0	hr	
Suggested Max Moisture	0.15	%	
Processing (Melt) Temp	230 - 290	°C	
Mold Temperature	105 - 115	°C	
Injection Rate	Moderate-Fast		
Injection instructions			

Drying Time (Tray Oven): 5 to 7 hrDrying Time (Hopper Dryers): 4 to 5 hrDrying Time (Dry Air Ovens): 3 to 4 hrInjection Pressure: Medium to HighBack Pressure: Medium to High

NOTE

- | | |
|----|--------------------|
| 1. | Type 1, 5.0 mm/min |
| 2. | 标准 B (120°C/h) |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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

