

MBA Polymers ABS 4124 Recycled acrylonitrile-butadiene-styrene copolymer

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , ABS Polymer

Material Notes:

Available in standard black. Information provided by MBA Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_MBA-Polymers-ABS-4124-Recycled-acrylonitrile-butadiene-styrene-copolymer.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	MBA Method
Melt Flow	6.0 g/10 min	6.0 g/10 min	ISO 1133
	@Load 3.80 kg, Temperature 230 Â°C	@Load 8.38 lb, Temperature 446 Â°F	
	22 g/10 min	22 g/10 min	ISO 1133
	@Load 10.0 kg, Temperature 220 Â°C	@Load 22.0 lb, Temperature 428 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	40.0 MPa	5800 psi	ISO 527-2/50
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Flexural Modulus	2.20 GPa	319 ksi	ISO 178
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	ISO 180/1A
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	80.0 Â°C	176 Â°F	unannealed; ISO 75-1A
Vicat Softening Point	95.0 Â°C	203 Â°F	VST/B/50; ISO 306
	104 Â°C	219 Â°F	VST/A/50; ISO 306

Processing Properties	Metric	English	Comments
Melt Temperature	200 - 220 Â°C	392 - 428 Â°F	Extrusion Range
	210 Â°C	410 Â°F	Recommended Extrusion

Processing Properties	200 - 230 Â°C Metric	392 - 446 Â°F English	Injection Molding Range Comments
	215 Â°C	419 Â°F	Recommended Injection Molding
Mold Temperature	40.0 - 60.0 Â°C	104 - 140 Â°F	
	50.0 Â°C	122 Â°F	Recommended
Drying Temperature	80.0 Â°C @Time 7200 - 14400 sec	176 Â°F @Time 2.00 - 4.00 hour	
Moisture Content	<= 0.10 %	<= 0.10 %	

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