

Styrolution Clearblend 165 MBS

Category : Polymer , Thermoplastic , Acrylic (PMMA)

Material Notes:

CLEARBLEND 165 is an impact modified styrene acrylic copolymer blend with excellent clarity and outstanding toughness. Exceptional toughness Low density Ease of processing Low moisture absorption Information provided by Styrolution

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styrolution-Clearblend-165-MBS.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM D 792
Water Absorption at Saturation	0.10 % @Temperature 23.0 Â°C	0.10 % @Temperature 73.4 Â°F	ASTM D 570
Linear Mold Shrinkage	0.0020 - 0.0060 cm/cm	0.0020 - 0.0060 in/in	ASTM D 955
Melt Flow	5.0 g/10 min @Load 5.00 kg, Temperature 200 Â°C	5.0 g/10 min @Load 11.0 lb, Temperature 392 Â°F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	70	70	ASTM D 785
Tensile Strength, Yield	20.7 MPa	3000 psi	ASTM D 638
Elongation at Break	50 %	50 %	ASTM D 638
Tensile Modulus	1.52 GPa	220 ksi	ASTM D 638
Flexural Strength	37.2 MPa	5400 psi	ASTM D 790
Flexural Modulus	1.55 GPa	225 ksi	ASTM D 790
Izod Impact, Notched	2.67 J/cm	5.00 ft-lb/in	ASTM D 256

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	249 Â°C	480 Â°F	
Vicat Softening Point	93.9 Â°C	201 Â°F	ASTM D 1525

Optical Properties	Metric	English	Comments
Refractive Index	1.57	1.57	Sodium D Line; ASTM D 542

Haze Optical Properties	Metric	English	ASTM D 1003 Comments
Transmission, Visible	>= 90 % @Wavelength 550 nm	>= 90 % @Wavelength 550 nm	ASTM D 1003

Processing Properties	Metric	English	Comments
Melt Temperature	204 - 238 Â°C	400 - 460 Â°F	
Mold Temperature	26.7 - 54.4 Â°C	80.0 - 130 Â°F	
Drying Temperature	65.6 Â°C @Time 7200 sec	150 Â°F @Time 2.00 hour	

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