

## Styrolution Zylar 650 MBS

Category : Polymer , Thermoplastic , Acrylic (PMMA)

### Material Notes:

Zylar® 650 is an impact modified styrene acrylic copolymer that provides a balance of clarity and toughness, with outstanding strength and rigidity. Zylar 650 also has superior processing characteristics for demanding injection molded applications. Good balance of toughness, stiffness, and clarity. Low density. Ease of processing. Gamma & ETO sterilizable. Meets USP XXIII specifications for Class VI plastics. Information provided by Styrolution

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Styrolution-Zylar-650-MBS.php](http://www.lookpolymers.com/polymer_Styrolution-Zylar-650-MBS.php)

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in <sup>3</sup>	ASTM D 792
Water Absorption at Saturation	0.10 % @Temperature 23.0 °C	0.10 % @Temperature 73.4 °F	ASTM D 570
Linear Mold Shrinkage	0.0020 - 0.0060 cm/cm	0.0020 - 0.0060 in/in	ASTM D 955
Melt Flow	4.0 g/10 min @Load 5.00 kg, Temperature 200 °C	4.0 g/10 min @Load 11.0 lb, Temperature 392 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	84	84	ASTM D 785
Tensile Strength, Yield	26.2 MPa	3800 psi	ASTM D 638
Elongation at Break	40 %	40 %	ASTM D 638
Tensile Modulus	2.14 GPa	310 ksi	ASTM D 638
Flexural Strength	48.3 MPa	7000 psi	ASTM D 790
Flexural Modulus	1.93 GPa	280 ksi	ASTM D 790
Izod Impact, Notched	1.60 J/cm	3.00 ft-lb/in	ASTM D 256
Gardner Impact	16.9 J	12.5 ft-lb	ASTM D 5420

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	249 °C	480 °F	
Vicat Softening Point	98.9 °C	210 °F	120°C/h; ASTM D 1525

Thermal Properties	@Load 1.02 kg Metric	@Load 2.25 lb English	Comments
<b>Optical Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Refractive Index	1.57	1.57	Sodium D Line; ASTM D 542
Haze	2.0 %	2.0 %	ASTM D 1003
Transmission, Visible	>= 90 % @Wavelength 550 nm	>= 90 % @Wavelength 550 nm	ASTM D 1003
<b>Processing Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
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	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China