

SABIC Innovative Plastics Cyclac® MG94 ABS (Asia Pacific)

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

Superior flow, injection molding ABS. Good impact. For thin-wall applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cyclac-MG94-ABS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Viscosity	172000 cP	172000 cP	Melt Viscosity, 240°C, 1000 sec-1; ASTM D3825
Linear Mold Shrinkage, Flow	0.0050 - 0.0080 cm/cm @Thickness 3.20 mm	0.0050 - 0.0080 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	11.7 g/10 min @Load 3.80 kg, Temperature 230 °C	11.7 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D1238
	12 g/10 min @Load 5.00 kg, Temperature 220 °C	12 g/10 min @Load 11.0 lb, Temperature 428 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	35.0 MPa	5080 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	46.0 MPa	6670 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	18 %	18 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.48 GPa	360 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	79.0 MPa	11500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.62 GPa	380 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	2.40 J/cm	4.50 ft-lb/in	ASTM D256
Dart Drop, Total Energy	21.0 J @Temperature 23.0 °C	15.5 ft-lb @Temperature 73.4 °F	ASTM D3763

Thermal Properties	Metric	English	Comments
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Thermal Properties	88.2 μm/m-°C Metric	49.0 μin/in-°F English	Comments
CTE, linear, Parallel to Flow	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	ASTM E 831
CTE, linear, Transverse to Flow	84.6 μm/m-°C @Temperature -40.0 - 40.0 °C	47.0 μin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	95.0 °C @Thickness 3.20 mm	203 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	82.0 °C @Thickness 3.20 mm	180 °F @Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	98.0 °C	208 °F	Rate B/50; ASTM D1525
UL RTI, Electrical	60.0 °C	140 °F	UL 746B
UL RTI, Mechanical with Impact	60.0 °C	140 °F	UL 746B
UL RTI, Mechanical without Impact	60.0 °C	140 °F	UL 746B
Flammability, UL94	HB @Thickness 1.52 mm	HB @Thickness 0.0598 in	UL 94

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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