

SABIC Innovative Plastics Cycolac® MG37CR ABS

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Molded

Material Notes:

High performance, injection molding ABS. Overall balance of physical properties, good processability and chemical resistance. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycolac-MG37CR-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D 792
Viscosity	255000 cP	255000 cP	melt; 1000 sec-1; ASTM D 3825
	@Temperature 240 °C	@Temperature 464 °F	
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Flow	4.4 g/10 min	4.4 g/10 min	ASTM D 1238
	@Load 3.80 kg, Temperature 230 °C	@Load 8.38 lb, Temperature 446 °F	
	16 g/10 min	16 g/10 min	ISO 1133
	@Load 10.0 kg, Temperature 220 °C	@Load 22.0 lb, Temperature 428 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	32.0 MPa	4640 psi	Type I, 5 mm/min; ASTM D 638
Tensile Strength, Yield	41.0 MPa	5950 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	25 %	25 %	Type I, 5 mm/min; ASTM D 638
Elongation at Yield	2.1 %	2.1 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	2.27 GPa	329 ksi	5 mm/min; ASTM D 638
Flexural Yield Strength	68.0 MPa	9860 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	2.34 GPa	339 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	3.47 J/cm	6.50 ft-lb/in	ASTM D 256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Impact Test	34.0 J	25.1 ft-lb	Instrumented Impact Total Energy;

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	ASTM D 3763 Comments
Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	77.4 µm/m-°C @Temperature -40.0 - 40.0 °C	43.0 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
CTE, linear, Transverse to Flow	73.8 µm/m-°C @Temperature -40.0 - 40.0 °C	41.0 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	98.0 °C @Thickness 3.20 mm	208 °F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	85.0 °C @Thickness 3.20 mm	185 °F @Thickness 0.126 in	unannealed; ASTM D 648
Vicat Softening Point	101 °C	214 °F	Rate B/50; ASTM D 1525
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

Electrical Properties	Metric	English	Comments
Arc Resistance	60 - 120 sec	60 - 120 sec	Tungsten, PLC code 6; ASTM D 495
Comparative Tracking Index	400 - 600 V	400 - 600 V	PLC code 1; UL 746A
Hot Wire Ignition, HWI	15 - 30 sec	15 - 30 sec	PLC code 3; UL 746A
High Amp Arc Ignition, HAI	15 - 30 arcs	15 - 30 arcs	surface, PLC code 3; UL 746A
High Voltage Arc-Tracking Rate, HVTR	80.0 - 150 mm/min	3.15 - 5.91 in/min	PLC code 3; UL 746A

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