

SABIC Innovative Plastics Cyclac® Z48 ABS

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

Material Notes:

Automotive. Very high heat resistance with medium impact and good strength properties. 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-Cyclac-Z48-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D 792
Viscosity	255000 cP @Temperature 260 °C	255000 cP @Temperature 500 °F	melt; 1000 sec-1; ASTM D 3825
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	1.0 g/10 min @Load 3.80 kg, Temperature 230 °C	1.0 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ASTM D 785
Tensile Strength, Yield	46.0 MPa	6670 psi	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	2.27 GPa	329 ksi	5 mm/min; ASTM D 638
Flexural Yield Strength	82.0 MPa	11900 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	2.41 GPa	350 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	0.530 J/cm @Temperature -40.0 °C	0.993 ft-lb/in @Temperature -40.0 °F	ASTM D 256
	2.13 J/cm @Temperature 23.0 °C	3.99 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Gardner Impact	12.0 J @Temperature 23.0 °C	8.85 ft-lb @Temperature 73.4 °F	ASTM D 3029

Thermal Properties	Metric	English	Comments
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Thermal Properties CTE, linear, Parallel to Flow	79.2 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ Metric	44.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ English	Comments ASTM E 831
	@Temperature -40.0 - 40.0 $^\circ\text{C}$	@Temperature -40.0 - 104 $^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	110 $^\circ\text{C}$ @Thickness 3.20 mm	230 $^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D 648
	113 $^\circ\text{C}$ @Thickness 6.40 mm	235 $^\circ\text{F}$ @Thickness 0.252 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	98.0 $^\circ\text{C}$ @Thickness 3.20 mm	208 $^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D 648
	103 $^\circ\text{C}$ @Thickness 6.40 mm	217 $^\circ\text{F}$ @Thickness 0.252 in	unannealed; ASTM D 648

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