

SABIC Innovative Plastics Cycolac® EX39F ABS

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

Highest impact extrusion ABS for sheet and blow molding applications. FDA food contact compliant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycolac-EX39F-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.03 g/cc	1.03 g/cc	ASTM D792
Viscosity	1.52e+6 cP	1.52e+6 cP	Melt Viscosity, 240°C, 100 sec-1; ASTM D3825
Linear Mold Shrinkage, Flow	0.0070 - 0.0090 cm/cm @Thickness 3.20 mm	0.0070 - 0.0090 in/in @Thickness 0.126 in	SABIC Method
Melt Index of Compound	4.0 g/10 min @Load 10.0 kg, Temperature 220 °C	4.0 g/10 min @Load 22.0 lb, Temperature 428 °F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	28.0 MPa	4060 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	35.0 MPa	5080 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	108 %	108 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	3.5 %	3.5 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	1.68 GPa	244 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	57.0 MPa	8270 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	1.90 GPa	276 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	4.64 J/cm	8.69 ft-lb/in	ASTM D256
	3.20 J/cm @Temperature -30.0 °C	5.99 ft-lb/in @Temperature -22.0 °F	ASTM D256
Dart Drop, Total Energy	39.0 J @Temperature 23.0 °C	28.8 ft-lb @Temperature 73.4 °F	ASTM D3763

Thermal Properties	Metric	English	Comments
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Thermal Properties	101 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ Metric	56.1 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ English	Comments
CTE, linear, Parallel to Flow	@Temperature -40.0 - 40.0 $^\circ\text{C}$	@Temperature -40.0 - 104 $^\circ\text{F}$	ASTM E 831
CTE, linear, Transverse to Flow	117 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature -40.0 - 40.0 $^\circ\text{C}$	65.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature -40.0 - 104 $^\circ\text{F}$	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	91.0 $^\circ\text{C}$ @Thickness 3.20 mm	196 $^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	77.0 $^\circ\text{C}$ @Thickness 3.20 mm	171 $^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	106 $^\circ\text{C}$	223 $^\circ\text{F}$	Rate B/50; ASTM D1525
UL RTI, Electrical	60.0 $^\circ\text{C}$	140 $^\circ\text{F}$	UL 746B
UL RTI, Mechanical with Impact	60.0 $^\circ\text{C}$	140 $^\circ\text{F}$	UL 746B
UL RTI, Mechanical without Impact	60.0 $^\circ\text{C}$	140 $^\circ\text{F}$	UL 746B
Flammability, UL94	HB @Thickness 1.52 mm	HB @Thickness 0.0598 in	UL 94

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