

SABIC Innovative Plastics Cyclac® EXABS01 ABS

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

Sheet extrusion ABS with medium impact.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cyclac-EXABS01-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.03 g/cc	1.03 g/cc	ASTM D792
Viscosity	1.40e+6 cP	1.40e+6 cP	Melt Viscosity, 240°C, 100 sec-1; ASTM D3825
Linear Mold Shrinkage, Flow	0.0060 - 0.0080 cm/cm @Thickness 3.20 mm	0.0060 - 0.0080 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	39.0 MPa	5660 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	31.6 %	31.6 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	3.1 %	3.1 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.03 GPa	294 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	63.0 MPa	9140 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.10 GPa	305 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	4.11 J/cm	7.70 ft-lb/in	ASTM D256
	2.77 J/cm @Temperature -30.0 °C	5.19 ft-lb/in @Temperature -22.0 °F	ASTM D256
Dart Drop, Total Energy	33.0 J @Temperature 23.0 °C	24.3 ft-lb @Temperature 73.4 °F	ASTM D3763

Thermal Properties	Metric	English	Comments
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Thermal Properties CTE, linear, Parallel to Flow	Metric 101 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	English 56.1 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	Comments ASTM E 831
	@Temperature -40.0 - 40.0 $^\circ\text{C}$	@Temperature -40.0 - 104 $^\circ\text{F}$	
CTE, linear, Transverse to Flow	104 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature -40.0 - 40.0 $^\circ\text{C}$	57.8 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature -40.0 - 104 $^\circ\text{F}$	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	93.0 $^\circ\text{C}$ @Thickness 3.20 mm	199 $^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	80.0 $^\circ\text{C}$ @Thickness 3.20 mm	176 $^\circ\text{F}$ @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

Electrical Properties	Metric	English	Comments
Arc Resistance	120 - 180 sec	120 - 180 sec	Tungsten; ASTM D495
Comparative Tracking Index	≥ 600 V	≥ 600 V	UL 746A
Hot Wire Ignition, HWI	7.0 - 15 sec	7.0 - 15 sec	UL 746A
High Amp Arc Ignition, HAI	0.00 - 15 arcs	0.00 - 15 arcs	UL 746A
High Voltage Arc-Tracking Rate, HVTR	10.0 - 25.4 mm/min	0.394 - 1.00 in/min	UL 746A

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