

SABIC Innovative Plastics Cycolac® FR23 ABS (Asia Pacific)

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

Flame retardant ABS (non-PBBE additives). Good properties/toughness. Excellent moldability. UL94 V-0 rated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycolac-FR23-ABS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 g/cc	ASTM D792
Viscosity	310000 cP	310000 cP	Melt Viscosity, 200°C, 1000 sec-1; ASTM D3825
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	6.8 g/10 min @Load 3.80 kg, Temperature 230 °C	6.8 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D1238
	9.0 g/10 min @Load 5.00 kg, Temperature 220 °C	9.0 g/10 min @Load 11.0 lb, Temperature 428 °F	ISO 1133
Melt Index of Compound	37 g/10 min @Load 10.0 kg, Temperature 220 °C	37 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	35.0 MPa	5080 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	42.0 MPa	6090 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	11 %	11 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	2.1 %	2.1 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.41 GPa	350 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	73.0 MPa	10600 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.72 GPa	395 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	2.67 J/cm	5.00 ft-lb/in	ASTM D256
Dart Drop, Total Energy	41.0 J	30.2 ft-lb	ASTM D3763

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	79.2 µm/m-°C @Temperature -40.0 - 40.0 °C	44.0 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
CTE, linear, Transverse to Flow	79.2 µm/m-°C @Temperature -40.0 - 40.0 °C	44.0 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	83.0 °C @Thickness 3.20 mm	181 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	72.0 °C @Thickness 3.20 mm	162 °F @Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	90.0 °C	194 °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	V-0 @Thickness 2.31 mm	V-0 @Thickness 0.0909 in	UL 94
	5VB @Thickness 2.48 mm	5VB @Thickness 0.0976 in	UL 94

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