

SABIC Innovative Plastics Cycolac® FR30U ABS

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Unreinforced, Flame Retardant

Material Notes:

Flame retardant ABS. Good indoor UV properties. Excellent moldability with no bloom. V-1/V-0/5VB rated. 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-FR30U-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 g/cc	ASTM D 792
Viscosity	350000 cP @Temperature 200 °C	350000 cP @Temperature 392 °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	5.3 g/10 min @Load 3.80 kg, Temperature 230 °C	5.3 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D 1238
	7.0 g/10 min @Load 5.00 kg, Temperature 220 °C	7.0 g/10 min @Load 11.0 lb, Temperature 428 °F	ISO 1133
	28 g/10 min @Load 10.0 kg, Temperature 220 °C	28 g/10 min @Load 22.0 lb, Temperature 428 °F	[cm ³ /10 min] Melt Volume Rate; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	33.0 MPa	4790 psi	Type I, 5 mm/min; ASTM D 638
Tensile Strength, Yield	39.0 MPa	5660 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	10 %	10 %	Type I, 5 mm/min; ASTM D 638
Elongation at Yield	2.3 %	2.3 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	2.20 GPa	319 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	2.42 GPa	351 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	3.20 J/cm	5.99 ft-lb/in	

120d Impact Notched Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	ASTM D 256 Comments
Impact Test	39.0 J @Temperature 23.0 °C	28.8 ft-lb @Temperature 73.4 °F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	84.6 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature -40.0 - 40.0 °C	47.0 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature -40.0 - 104 °F	ASTM E 831
CTE, linear, Transverse to Flow	88.2 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature -40.0 - 40.0 °C	49.0 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature -40.0 - 104 °F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	88.0 °C @Thickness 3.20 mm	190 °F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	75.0 °C @Thickness 3.20 mm	167 °F @Thickness 0.126 in	unannealed; ASTM D 648
Vicat Softening Point	94.0 °C	201 °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	V-1 @Thickness 2.31 mm	V-1 @Thickness 0.0909 in	UL 94
	V-0 @Thickness 2.99 mm	V-0 @Thickness 0.118 in	UL 94
	5VB @Thickness 2.31 mm	5VB @Thickness 0.0909 in	UL 94

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China