

SABIC Innovative Plastics Cycolac® X15 ABS

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

Material Notes:

Automotive. Very high heat resistance with high impact. UL94 HB rated. High gloss. 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-X15-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	108	108	ASTM D 785
Tensile Strength, Yield	45.0 MPa	6530 psi	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	2.20 GPa	319 ksi	5 mm/min; ASTM D 638
Flexural Yield Strength	77.0 MPa	11200 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	2.34 GPa	339 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	0.850 J/cm @Temperature -40.0 °C	1.59 ft-lb/in @Temperature -40.0 °F	ASTM D 256
	2.67 J/cm @Temperature 23.0 °C	5.00 ft-lb/in @Temperature 73.4 °F	ASTM D 256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	107 °C @Thickness 3.20 mm	225 °F @Thickness 0.126 in	unannealed; ASTM D 648

Thermal Properties	110 °C Metric	230 °F English	Comments
	@Thickness 6.40 mm	@Thickness 0.252 in	ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	94.0 °C @Thickness 3.20 mm	201 °F @Thickness 0.126 in	unannealed; ASTM D 648
	100 °C @Thickness 6.40 mm	212 °F @Thickness 0.252 in	unannealed; ASTM D 648
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	HB @Thickness 1.47 mm	HB @Thickness 0.0579 in	UL 94

Electrical Properties	Metric	English	Comments
Arc Resistance	60 - 120 sec	60 - 120 sec	Tungsten, PLC code 6; ASTM D 495
Comparative Tracking Index	>= 600 V	>= 600 V	PLC code 0; UL 746A
Hot Wire Ignition, HWI	7.0 - 15 sec	7.0 - 15 sec	PLC code 4; UL 746A
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	surface, PLC code 0; UL 746A
High Voltage Arc-Tracking Rate, HVTR	25.4 - 80.0 mm/min	1.00 - 3.15 in/min	PLC code 2; UL 746A

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