

SABIC Innovative Plastics Cycolac® BDT6500 ABS

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

AUTOMOTIVE. Low gloss, color concentratable for interior applications. Natural only.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycolac-BDT6500-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792
Viscosity	155000 cP	155000 cP	Melt Viscosity, 260°C, 1000 sec-1; ASTM D3825
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	3.3 g/10 min @Load 3.80 kg, Temperature 230 °C	3.3 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D1238
Spiral Flow	86.36 cm @Temperature 260 °C	34.00 in @Temperature 500 °F	10 ips, 3.175 X 1524 mm

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	48.0 MPa	6960 psi	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.20 GPa	319 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	72.0 MPa	10400 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.41 GPa	350 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.86 J/cm	3.48 ft-lb/in	ASTM D256
Dart Drop, Total Energy	42.0 J	31.0 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	155 µm/m-°C @Temperature -40.0 - 60.0 °C	86.1 µin/in-°F @Temperature -40.0 - 140 °F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	93.0 °C @Thickness 3.20 mm	199 °F @Thickness 0.126 in	unannealed; ASTM D648

Thermal Properties (Temperature at 1.8 MPa (264 psi))	Metric	English	Comments
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
	85.0 °C	185 °F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
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	HB	UL 94
	@Thickness 1.47 mm	@Thickness 0.0579 in	

Optical Properties	Metric	English	Comments
Gloss	25 %	25 %	untextured, 60 degrees; ASTM D523

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	400 - 600 V	400 - 600 V	UL 746A
Hot Wire Ignition, HWI	7.0 - 15 sec	7.0 - 15 sec	UL 746A
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	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