

SABIC Innovative Plastics Cyclac® BDT5510 ABS

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

Automotive. High heat resistance, low gloss, color concentratable for interior applications. Natural only.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cyclac-BDT5510-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792
Viscosity	163000 cP	163000 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	6.0 g/10 min @Load 3.80 kg, Temperature 230 °C	6.0 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D1238
	14 g/10 min @Load 10.0 kg, Temperature 220 °C	14 g/10 min @Load 22.0 lb, Temperature 428 °F	ISO 1133
Spiral Flow	73.66 cm @Temperature 260 °C	29.00 in @Temperature 500 °F	10 ips, 3.175 X 1524 mm

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	43.0 MPa	6240 psi	50 mm/min; ISO 527
	53.0 MPa	7690 psi	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.27 GPa	329 ksi	5 mm/min; ASTM D638
	2.93 GPa	425 ksi	1 mm/min; ISO 527
Flexural Yield Strength	67.0 MPa	9720 psi	2 mm/min; ISO 178
	81.0 MPa	11700 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.03 GPa	294 ksi	2 mm/min; ISO 178
	2.46 GPa	357 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	2.93 J/cm	5.49 ft-lb/in	ASTM D256

Izod Impact, Notched (ISO) Mechanical Properties	12.0 kJ/m ² Metric	5.71 ft-lb/in ² English	80*10*4; ISO 180/1A Comments
	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.30 J/cm ²	6.19 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	0.700 J/cm ²	3.33 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Dart Drop, Total Energy	35.0 J	25.8 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	135 µm/m-°C	75.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 60.0 °C	@Temperature -40.0 - 140 °F	
Deflection Temperature at 0.46 MPa (66 psi)	95.0 °C	203 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	92.0 °C	198 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	83.0 °C	181 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	81.0 °C	178 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	98.0 °C	208 °F	Rate B/50; ISO 306
Flammability, UL94	HB	HB	UL 94
	@Thickness 1.52 mm	@Thickness 0.0598 in	

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

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