

SABIC CYCOLAC™ BDT5510

Automotive. High heat resistance, low gloss, color concentratable for interior applications. Natural only.
Information provided by SABIC

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792
Viscosity	1630 cP @Shear Rate 1000 1/s, Temperature 260 °C	1630 cP @Shear Rate 1000 1/s, Temperature 500 °F	melt; 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	73.7 cm	29.0 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	43.0 MPa	6240 psi	50 mm/min; ISO 527
	53.0 MPa	7690 psi	5 mm/min; ASTM D638
Tensile Modulus	2.27 GPa	329 ksi	5 mm/min; ASTM D638
	2.93 GPa	425 ksi	1mm/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)	12.0 kJ/m ²	5.71 ft-lb/in ²	80*10*4; ISO 180/1A
	7.00 kJ/m ² @Temperature -30.0 °C	3.33 ft-lb/in ² @Temperature -22.0 °F	80*10*4; ISO 180/1A
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 @Temperature -30.0 °C	3.33 ft-lb/in ² @Temperature -22.0 °F	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Falling Dart Impact	35.0 J	25.8 ft-lb	ASTM D3029