

SABIC CYCOLAC™ BDT6500

Automotive. 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	1550 cP @Shear Rate 1000 1/s, Temperature 260 °C	1550 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	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	86.4 cm	34.0 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	48.0 MPa	6960 psi	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
Falling Dart Impact	42.0 J	31.0 ft-lb	ASTM D3029

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