

SABIC CYCOLAC™ DL100LG

CYCOLAC DL100LG is a low gloss, high heat, high impact ABS/PC blend with low emission
Information provided by SABIC

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	SABIC method
Melt Flow	10 g/10 min @Load 10.0 kg, Temperature 220 °C	10 g/10 min @Load 22.0 lb, Temperature 428 °F	cm ³ /10 min; ISO 1133
	10 g/10 min @Load 10.0 kg, Temperature 220 °C	10 g/10 min @Load 22.0 lb, Temperature 428 °F	ASTM D1238
	12 g/10 min @Load 5.00 kg, Temperature 260 °C	12 g/10 min @Load 11.0 lb, Temperature 500 °F	cm ³ /10 min; ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	80.0 MPa	11600 psi	ISO 2039-1
Tensile Strength at Break	36.0 MPa	5220 psi	5 mm/min; ISO 527
	38.0 MPa	5510 psi	50 mm/min; ASTM D638
	39.0 MPa	5660 psi	50 mm/min; ISO 527
	40.0 MPa	5800 psi	5 mm/min; ASTM D638
Tensile Strength, Yield	47.0 MPa	6820 psi	5 mm/min; ASTM D638
	47.0 MPa	6820 psi	5 mm/min; ISO 527
	51.0 MPa	7400 psi	50 mm/min; ASTM D638
Elongation at Break	51.0 MPa	7400 psi	50 mm/min; ISO 527
	12 %	12 %	50 mm/min; ISO 527
	12 %	12 %	50 mm/min; ASTM D638
	50 %	50 %	5 mm/min; ISO 527
Elongation at Yield	85 %	85 %	5 mm/min; ASTM D638
	4.0 %	4.0 %	50 mm/min; ASTM D638
	4.0 %	4.0 %	50 mm/min; ISO 527
	4.0 %	4.0 %	5 mm/min; ASTM D638
Tensile Modulus	4.0 %	4.0 %	5 mm/min; ISO 527
	2.20 GPa	319 ksi	1mm/min; ISO 527
	2.24 GPa	325 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	74.0 MPa	10700 psi	2 mm/min; ISO 178
Flexural Modulus	2.20 GPa	319 ksi	2 mm/min; ISO 178
Izod Impact, Notched	3.80 J/cm	7.12 ft-lb/in	ASTM D256
	1.15 J/cm @Temperature -30.0 °C	2.15 ft-lb/in @Temperature -22.0 °F	ASTM D256
Izod Impact, Notched (ISO)	28.0 kJ/m ²	13.3 ft-lb/in ²	80*10*4; ISO 180/1A
	45.0 kJ/m ²	21.4 ft-lb/in ²	80*10*3; ISO 180/1A