

SABIC CYCOLAC™ DL200H

CYCOLAC DL200H is a hydrostable high heat ABS/PC blend
Information provided by SABIC

Physical Properties	Metric	English	Comments
Density	1.11 g/cc	0.0401 lb/in ³	ISO 1183
Melt Flow	9.0 g/10 min @Load 10.0 kg, Temperature 220 °C	9.0 g/10 min @Load 22.0 lb, Temperature 428 °F	ISO 1133
	25 g/10 min @Load 5.00 kg, Temperature 260 °C	25 g/10 min @Load 11.0 lb, Temperature 500 °F	ASTM D1238
Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	40.0 MPa	5800 psi	50 mm/min; ISO 527
Tensile Strength, Yield	47.0 MPa	6820 psi	5 mm/min; ASTM D638
	49.0 MPa	7110 psi	50 mm/min; ISO 527
Elongation at Break	70 %	70 %	5 mm/min; ASTM D638
	75 %	75 %	50 mm/min; ISO 527
Elongation at Yield	3.9 %	3.9 %	50 mm/min; ISO 527
Tensile Modulus	2.33 GPa	338 ksi	5 mm/min; ASTM D638
	2.35 GPa	341 ksi	1mm/min; ISO 527
Flexural Yield Strength	75.0 MPa	10900 psi	2 mm/min; ISO 178
	77.0 MPa	11200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.10 GPa	305 ksi	2 mm/min; ISO 178
	2.20 GPa	319 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	6.20 J/cm	11.6 ft-lb/in	ASTM D256
	5.00 J/cm @Thickness 6.40 mm	9.37 ft-lb/in @Thickness 0.252 in	ASTM D256
Izod Impact, Notched (ISO)	56.0 kJ/m ²	26.6 ft-lb/in ²	80*10*4; ISO 180/1A
	21.0 kJ/m ² @Temperature -40.0 °C	9.99 ft-lb/in ² @Temperature -40.0 °F	80*10*4; ISO 180/1A
Charpy Impact, Notched	6.50 J/cm ²	30.9 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	3.00 J/cm ² @Temperature -30.0 °C	14.3 ft-lb/in ² @Temperature -22.0 °F	Edgew 80*10*4 sp=62mm; ISO 179/1eA