

SABIC Innovative Plastics Cycology® CU6800 PC+ABS

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

Non-chlorinated and non-brominated flame retardant PC/ABS featuring excellent flow properties. UL-94 V1 listed at 2.0mm intended for a wide range of different applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycology-CU6800-PCABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	23 g/10 min @Load 2.16 kg, Temperature 260 °C	23 g/10 min @Load 4.76 lb, Temperature 500 °F	ASTM D1238
	81 g/10 min @Load 5.00 kg, Temperature 260 °C	81 g/10 min @Load 11.0 lb, Temperature 500 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	46.0 MPa	6670 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	59.0 MPa	8560 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	66 %	66 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	3.3 %	3.3 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.99 GPa	434 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	88.0 MPa	12800 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.52 GPa	365 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	5.17 J/cm	9.69 ft-lb/in	ASTM D256
Dart Drop, Total Energy	47.0 J @Temperature 23.0 °C	34.7 ft-lb @Temperature 73.4 °F	ASTM D3763

Thermal Properties	Metric	English	Comments
	75.6 µm/m-°C	42.0 µin/in-°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	@ Temperature -40.0 - 40.0 °C	@ Temperature -40.0 - 104 °F	ASTM E 831
CTE, linear, Transverse to Flow	75.6 µm/m-°C @Temperature -40.0 - 40.0 °C	42.0 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	88.0 °C @Thickness 3.20 mm	190 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	74.0 °C @Thickness 3.20 mm	165 °F @Thickness 0.126 in	unannealed; ASTM D648
	79.0 °C @Thickness 6.40 mm	174 °F @Thickness 0.252 in	unannealed; ASTM D648
Vicat Softening Point	98.0 °C	208 °F	Rate B/50; ASTM D1525
UL RTI, Electrical	60.0 °C	140 °F	UL 746B
UL RTI, Mechanical with Impact	60.0 °C	140 °F	UL 746B
UL RTI, Mechanical without Impact	60.0 °C	140 °F	UL 746B
Flammability, UL94	V-1 @Thickness 2.00 mm	V-1 @Thickness 0.0787 in	UL 94
	5VB @Thickness 2.00 mm	5VB @Thickness 0.0787 in	UL 94

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