

SABIC Innovative Plastics Cycology® CH6310 PC+ABS (Asia Pacific)

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

Material Notes:

CH6310 is a high heat, high flow PC/ABS resin, with nonbrominated, nonchlorinated flame retardant system. All color available.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycology-CH6310-PCABS-Asia-Pacific.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	0.0050 - 0.0070 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	61.0 MPa	8850 psi	SABIC - Japan Method
Elongation at Break	220 %	220 %	SABIC - Japan Method
Flexural Strength	93.0 MPa	13500 psi	ASTM D790
Flexural Modulus	2.40 GPa	348 ksi	ASTM D790
Izod Impact, Notched	5.10 J/cm	9.55 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 - 80.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	33.3 - 44.4 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	TMA
	@Temperature -30.0 - 30.0 $^\circ\text{C}$	@Temperature -22.0 - 86.0 $^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	127 $^\circ\text{C}$	261 $^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	118 $^\circ\text{C}$	244 $^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Flammability, UL94	V-0	V-0	UL 94
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	5VB	5VB	UL 94
	@Thickness 2.00 mm	@Thickness 0.0787 in	

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