

SABIC Innovative Plastics Cycloy® CX7510 PC+ABS (Asia Pacific)

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

Material Notes:

Cycloy* CX7510 resin is an injection moldable, flame retardant PC/ABS blend, with non-chlorinated & non-brominated flame retardants.

Key features of Cycloy CX7510 resin include high heat, high flow and good impact resistance. This data was supplied by SABIC-IP for the Asia Pacific region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycloy-CX7510-PCABS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D 792
Density	1.18 g/cc	0.0426 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.050 %	0.050 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.11 % @Temperature 23.0 °C	0.11 % @Temperature 73.4 °F	ISO 62
Linear Mold Shrinkage, Flow	0.0056 - 0.0063 cm/cm @Thickness 3.20 mm	0.0056 - 0.0063 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	16 g/10 min @Load 2.16 kg, Temperature 260 °C	16 g/10 min @Load 4.76 lb, Temperature 500 °F	ASTM D 1238
	41 g/10 min @Load 5.00 kg, Temperature 260 °C	41 g/10 min @Load 11.0 lb, Temperature 500 °F	[cm ³ /10 min] Melt Volume Rate; ISO 1133
	45 g/10 min @Load 5.00 kg, Temperature 260 °C	45 g/10 min @Load 11.0 lb, Temperature 500 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	48.0 MPa	6960 psi	50 mm/min; ISO 527
	49.0 MPa	7110 psi	Type I, 50 mm/min; ASTM D 638
Tensile Strength, Yield	64.0 MPa	9280 psi	50 mm/min; ISO 527
	65.0 MPa	9430 psi	Type I, 50 mm/min; ASTM D 638
Elongation at Break	36 %	36 %	Type I, 50 mm/min; ASTM D 638
	36 %	36 %	50 mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
Elongation at Yield	4.5 %	4.5 %	Type I, 50 mm/min; ASTM D 638
	4.5 %	4.5 %	50 mm/min; ISO 527
Tensile Modulus	2.54 GPa	368 ksi	1 mm/min; ISO 527
	2.58 GPa	374 ksi	50 mm/min; ASTM D 638
Flexural Yield Strength	97.0 MPa	14100 psi	1.3 mm/min, 50 mm span; ASTM D 790
	99.0 MPa	14400 psi	2 mm/min; ISO 178
Flexural Modulus	2.33 GPa	338 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	2.62 GPa	380 ksi	2 mm/min; ISO 178
Izod Impact, Notched	1.37 J/cm @Temperature -30.0 °C	2.57 ft-lb/in @Temperature -22.0 °F	ASTM D 256
	6.40 J/cm @Temperature 23.0 °C	12.0 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Charpy Impact, Notched	3.60 J/cm ² @Temperature 23.0 °C	17.1 ft-lb/in ² @Temperature 73.4 °F	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
Impact Test	65.0 J @Temperature 23.0 °C	47.9 ft-lb @Temperature 73.4 °F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	69.0 μm/m-°C	38.3 μin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	72.0 μm/m-°C	40.0 μin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	72.0 μm/m-°C	40.0 μin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	75.0 μm/m-°C	41.7 μin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 1.8 MPa (264 psi)	95.0 °C	203 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af

Thermal Properties	106 °C Metric	223 °F English	Comments
	@Thickness 6.40 mm	@Thickness 0.252 in	UL 94; ASTM D 648
Vicat Softening Point	113 °C	235 °F	Rate B/50; ASTM D 1525
	115 °C	239 °F	Rate B/50; ISO 306
	118 °C	244 °F	Rate B/120; ISO 306
Flammability, UL94	V-0	V-0	UL 94
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	5VB	5VB	UL 94
	@Thickness 1.50 mm	@Thickness 0.0591 in	

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