

SABIC Innovative Plastics Cycloy® CX7720 PC+ABS (Asia Pacific)

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

Material Notes:

Cycloy resin CX7720 is a non brominated and non chlorinated flame retardant PC/ABS resin grade featuring high heat resistance and thin wall FR. It is UL-94 listed at 1.2 mm V0 and 1.5mm 5VB. Its high heat deflection temperature allows this product to be considered for applications requiring higher heat resistance than conventional FR PC/ABS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycloy-CX7720-PCABS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792
Density	1.22 g/cc	0.0441 lb/in ³	ISO 1183
Moisture Absorption	0.0700 %	0.0700 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.15 %	0.15 %	ISO 62
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	9.0 g/10 min @Load 2.16 kg, Temperature 260 °C	9.0 g/10 min @Load 4.76 lb, Temperature 500 °F	ASTM D1238
	25 g/10 min @Load 5.00 kg, Temperature 260 °C	25 g/10 min @Load 11.0 lb, Temperature 500 °F	ASTM D1238
Melt Index of Compound	22 g/10 min @Load 5.00 kg, Temperature 260 °C	22 g/10 min @Load 11.0 lb, Temperature 500 °F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	65.0 MPa	9430 psi	50 mm/min; ISO 527
	66.0 MPa	9570 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	65.0 MPa	9430 psi	Type I, 50 mm/min; ASTM D638
	65.0 MPa	9430 psi	50 mm/min; ISO 527
Elongation at Break	122 %	122 %	50 mm/min; ISO 527
	126 %	126 %	Type I, 50 mm/min; ASTM D638

Elongation at Yield Mechanical Properties	5.0 % Metric	5.0 % English	Type I, 50 mm/min; ASTM D638 Comments
	5.0 %	5.0 %	50 mm/min; ISO 527
Tensile Modulus	2.86 GPa	415 ksi	50 mm/min; ASTM D638
	2.90 GPa	421 ksi	1 mm/min; ISO 527
Flexural Yield Strength	97.0 MPa	14100 psi	2 mm/min; ISO 178
	99.0 MPa	14400 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.09 GPa	303 ksi	2 mm/min; ISO 178
	2.81 GPa	408 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.50 J/cm	2.81 ft-lb/in	ASTM D256
	0.630 J/cm	1.18 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	80*10*4; ISO 180/1A
	11.0 kJ/m ²	5.23 ft-lb/in ²	80*10*3; ISO 180/1A
	8.00 kJ/m ²	3.81 ft-lb/in ²	80*10*3; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.10 J/cm ²	5.23 ft-lb/in ²	Edgew 80*10*3 sp=62mm; ISO 179/1eA
	1.10 J/cm ²	5.23 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	62.0 J	45.7 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	60.6 µm/m-°C	33.7 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	60.6 µm/m-°C	33.7 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	65.9 µm/m-°C	36.6 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	

Thermal Properties	65.9 µm/m-°C Metric	36.6 µm/in-°F English	Comments ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 0.46 MPa (66 psi)	122 °C	252 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
	124 °C	255 °F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	110 °C	230 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	110 °C	230 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
	115 °C	239 °F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	127 °C	261 °F	Rate B/50; ASTM D1525
	127 °C	261 °F	Rate B/50; ISO 306
	129 °C	264 °F	Rate B/120; ISO 306
Flammability, UL94	V-1	V-1	UL 94
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	V-0	V-0	UL 94
	@Thickness 1.20 mm	@Thickness 0.0472 in	
	5VB	5VB	UL 94
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	5VA	5VA	UL 94
	@Thickness 2.50 mm	@Thickness 0.0984 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	175 - 250 V	175 - 250 V	UL 746A
Hot Wire Ignition, HWI	30 - 60 sec	30 - 60 sec	UL 746A
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	UL 746A

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