

SABIC Innovative Plastics Cycloy® C7122 PC+ABS (Asia Pacific)

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

Material Notes:

Cycloy®C7122 is a mineral filled, non-halogenated flame retardant PC/ABS. Good stiffness with balanced flow and impact performance.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycloy-C7122-PCABS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.28 g/cc	1.28 g/cc	ASTM D792
Water Absorption	0.20 %	0.20 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0030 - 0.0040 cm/cm	0.0030 - 0.0040 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Flow	13 g/10 min	13 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 260 °C	@Load 4.76 lb, Temperature 500 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	40.0 MPa	5800 psi	Type I, 5 mm/min; ASTM D638
	94.0 MPa	13600 psi	
Tensile Strength, Yield	59.0 MPa	8560 psi	SABIC - Japan Method
	60.0 MPa	8700 psi	
Elongation at Break	6.6 %	6.6 %	5 mm/min; ISO 527
	90 %	90 %	
Tensile Modulus	4.09 GPa	593 ksi	1 mm/min; ISO 527
	4.23 GPa	614 ksi	
Flexural Strength	95.0 MPa	13800 psi	ASTM D790
Flexural Yield Strength	95.0 MPa	13800 psi	1.3 mm/min, 50 mm span; ASTM D790
	96.0 MPa	13900 psi	
Flexural Modulus	3.96 GPa	574 ksi	ASTM D790
	3.96 GPa	574 ksi	

Mechanical Properties	Metric Pa	English	Comments ISO 178
Izod Impact, Notched	1.39 J/cm	2.60 ft-lb/in	ASTM D256
	0.570 J/cm @Temperature -30.0 °C	1.07 ft-lb/in @Temperature -22.0 °F	ASTM D256
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	80*10*4; ISO 180/1A
	6.00 kJ/m ² @Temperature -30.0 °C	2.86 ft-lb/in ² @Temperature -22.0 °F	80*10*4; ISO 180/1A
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	65.0 J @Temperature 23.0 °C	47.9 ft-lb @Temperature 73.4 °F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear	50.0 - 70.0 µm/m-°C @Temperature -30.0 - 30.0 °C	27.8 - 38.9 µin/in-°F @Temperature -22.0 - 86.0 °F	TMA
CTE, linear, Parallel to Flow	61.0 µm/m-°C @Temperature -40.0 - 40.0 °C	33.9 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
CTE, linear, Transverse to Flow	49.0 µm/m-°C @Temperature -40.0 - 40.0 °C	27.2 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	91.0 °C @Thickness 3.20 mm	196 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	83.0 °C	181 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	85.0 °C @Thickness 6.40 mm	185 °F @Thickness 0.252 in	unannealed; ASTM D648
Vicat Softening Point	92.0 °C	198 °F	Rate B/50; ISO 306
	93.0 °C	199 °F	Rate B/120; ISO 306
Flammability, UL94	V-1 @Thickness 1.20 mm	V-1 @Thickness 0.0472 in	UL 94
	V-0	V-0	UL 94

Thermal Properties	@Thickness 1.50 mm Metric	@Thickness 0.0591 in English	Comments
	5VB	5VB	UL 94
	@Thickness 1.80 mm	@Thickness 0.0709 in	

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