

SABIC Innovative Plastics Cycloy® C7240P PC+ABS (Asia Pacific)

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

Material Notes:

Cycloy* C7240P resin is a mineral filled, flame retardant PC/ABS. High stiffness combined with balanced flow and impact performance, makes it a good candidate for various applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycloy-C7240P-PCABS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.34 g/cc	1.34 g/cc	ASTM D792
Density	1.34 g/cc	0.0484 lb/in ³	ISO 1183
Moisture Absorption	0.0400 %	0.0400 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.090 %	0.090 %	ISO 62
Linear Mold Shrinkage, Flow	0.0035 - 0.0045 cm/cm @Thickness 3.20 mm	0.0035 - 0.0045 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	11 g/10 min @Load 2.16 kg, Temperature 260 °C	11 g/10 min @Load 4.76 lb, Temperature 500 °F	ASTM D1238
Melt Index of Compound	9.0 g/10 min @Load 2.16 kg, Temperature 260 °C	9.0 g/10 min @Load 4.76 lb, Temperature 500 °F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	44.0 MPa	6380 psi	Type I, 50 mm/min; ASTM D638
	51.0 MPa	7400 psi	5 mm/min; ISO 527
Tensile Strength, Yield	59.0 MPa	8560 psi	Type I, 50 mm/min; ASTM D638
	59.0 MPa	8560 psi	5 mm/min; ISO 527
Elongation at Break	6.0 %	6.0 %	5 mm/min; ISO 527
	8.5 %	8.5 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	2.7 %	2.7 %	5 mm/min; ISO 527
	2.8 %	2.8 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	5.28 GPa	766 ksi	1 mm/min; ISO 527

Mechanical Properties	5.34 GPa Metric	775 ksi English	50 mm/min; ASTM D638 Comments
Flexural Yield Strength	100 MPa	14500 psi	1.3 mm/min, 50 mm span; ASTM D790
	101 MPa	14600 psi	2 mm/min; ISO 178
Flexural Modulus	5.35 GPa	776 ksi	1.3 mm/min, 50 mm span; ASTM D790
	5.43 GPa	788 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.490 J/cm	0.918 ft-lb/in	ASTM D256
	0.380 J/cm @Temperature -30.0 °C	0.712 ft-lb/in @Temperature -22.0 °F	ASTM D256
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*3; ISO 180/1A
	4.00 kJ/m ² @Temperature -30.0 °C	1.90 ft-lb/in ² @Temperature -22.0 °F	80*10*3; ISO 180/1A
Izod Impact, Unnotched (ISO)	46.0 kJ/m ²	21.9 ft-lb/in ²	80*10*3; ISO 180/1U
	34.0 kJ/m ² @Temperature -30.0 °C	16.2 ft-lb/in ² @Temperature -22.0 °F	80*10*3; ISO 180/1U
Charpy Impact Unnotched	5.40 J/cm ²	25.7 ft-lb/in ²	Edgew 80*10*3 sp=62mm; ISO 179/1eU
	4.90 J/cm ² @Temperature -30.0 °C	23.3 ft-lb/in ² @Temperature -22.0 °F	Edgew 80*10*3 sp=62mm; ISO 179/1eU
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	Edgew 80*10*3 sp=62mm; ISO 179/1eA
	0.300 J/cm ² @Temperature -30.0 °C	1.43 ft-lb/in ² @Temperature -22.0 °F	Edgew 80*10*3 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	52.0 J	38.4 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	38.0 µm/m-°C	21.1 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	38.0 µm/m-°C	21.1 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	

Thermal Properties <i>CTE, linear, transverse to Flow</i>	53.0 $\mu\text{m}/\text{m}\cdot\text{C}$ Metric	29.4 $\mu\text{in}/\text{in}\cdot\text{F}$ English	Comments ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	53.0 $\mu\text{m}/\text{m}\cdot\text{C}$	29.4 $\mu\text{in}/\text{in}\cdot\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 1.8 MPa (264 psi)	87.0 °C	189 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	86.0 °C	187 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	103 °C	217 °F	Rate B/50; ASTM D1525
	103 °C	217 °F	Rate B/50; ISO 306
	106 °C	223 °F	Rate B/120; ISO 306
Flammability, UL94	V-0	V-0	UL 94 by SABIC-IP
	@Thickness 1.20 mm	@Thickness 0.0472 in	
	5VB	5VB	UL 94 by SABIC-IP
	@Thickness 2.00 mm	@Thickness 0.0787 in	

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