

SABIC Innovative Plastics Cycology® C7230P PC+ABS (Asia Pacific)

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

Material Notes:

Cycology* C7230P resin is a mineral filled, flame retardant PC/ABS. Good 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-Cycology-C7230P-PCABS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D792
Density	1.30 g/cc	0.0470 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	0.0025 - 0.0035 cm/cm @Thickness 3.20 mm	0.0025 - 0.0035 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	13 g/10 min @Load 2.16 kg, Temperature 260 °C	13 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	35.0 MPa	5080 psi	50 mm/min; ISO 527
	45.0 MPa	6530 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	55.0 MPa	7980 psi	50 mm/min; ISO 527
	58.0 MPa	8410 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	30 %	30 %	50 mm/min; ISO 527
	32 %	32 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	3.8 %	3.8 %	50 mm/min; ISO 527
	4.0 %	4.0 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	5.20 GPa	754 ksi	5 mm/min; ASTM D638

Mechanical Properties	5.58 GPa Metric	809 ksi English	1 mm/min; ISO 527 Comments
Flexural Yield Strength	98.0 MPa	14200 psi	1.3 mm/min, 50 mm span; ASTM D790
	99.0 MPa	14400 psi	2 mm/min; ISO 178
Flexural Modulus	4.53 GPa	657 ksi	1.3 mm/min, 50 mm span; ASTM D790
	4.58 GPa	664 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.690 J/cm	1.29 ft-lb/in	ASTM D256
	0.550 J/cm	1.03 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	42.0 µm/m-°C	23.3 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	42.0 µm/m-°C	23.3 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	49.0 µm/m-°C	27.2 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	59.0 µm/m-°C	32.8 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)	89.0 °C	192 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	88.0 °C	190 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	107 °C	225 °F	Rate B/50; ISO 306
	108 °C	226 °F	Rate B/50; ASTM D1525

Thermal Properties	110 °C Metric	230 °F English	Rate B/120- ISO 306 Comments
Flammability, UL94	V-0	V-0	UL 94
	@Thickness 1.20 mm	@Thickness 0.0472 in	
	5VB	5VB	UL 94
	@Thickness 2.00 mm	@Thickness 0.0787 in	

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