

SABIC Innovative Plastics Cycloy® CM6240 PC+ABS (Asia Pacific)

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

Material Notes:

CYCOLOY CM6240 resin is a flame retardant PC/ABS blend featuring balanced properties of high modulus, good flow and ductility. It is of Br- & Cl-free flame retardant systems intended to meet thin wall flame resistance and various environmental requirements.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycloy-CM6240-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	0.0300 %	0.0300 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.10 %	0.10 %	ISO 62
Linear Mold Shrinkage, Flow	0.0033 cm/cm	0.0033 in/in	SABIC Method
	0.0030 - 0.0040 cm/cm	0.0030 - 0.0040 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.0038 cm/cm	0.0038 in/in	SABIC Method
Melt Flow	16.5 g/10 min	16.5 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 260 °C	@Load 4.76 lb, Temperature 500 °F	
Melt Index of Compound	15 g/10 min	15 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 2.16 kg, Temperature 260 °C	@Load 4.76 lb, Temperature 500 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	29.0 MPa	4210 psi	5 mm/min; ISO 527
	40.0 MPa	5800 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	55.0 MPa	7980 psi	Type I, 5 mm/min; ASTM D638
	56.0 MPa	8120 psi	5 mm/min; ISO 527
Elongation at Break	25 %	25 %	5 mm/min; ISO 527
	35 %	35 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	3.0 %	3.0 %	Type I, 5 mm/min; ASTM D638

Mechanical Properties	Metric	English	5 mm/min; ISO 527 Comments
Tensile Modulus	4.35 GPa	631 ksi	5 mm/min; ASTM D638
	4.46 GPa	647 ksi	1 mm/min; ISO 527
Flexural Yield Strength	96.0 MPa	13900 psi	1.3 mm/min, 50 mm span; ASTM D790
	101 MPa	14600 psi	2 mm/min; ISO 178
Flexural Modulus	4.40 GPa	638 ksi	1.3 mm/min, 50 mm span; ASTM D790
	4.51 GPa	654 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.860 J/cm	1.61 ft-lb/in	ASTM D256
	0.600 J/cm @Temperature -30.0 °C	1.12 ft-lb/in @Temperature -22.0 °F	ASTM D256
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1A
	7.00 kJ/m ² @Temperature -30.0 °C	3.33 ft-lb/in ² @Temperature -22.0 °F	80*10*4; ISO 180/1A
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	35.0 J	25.8 ft-lb	ASTM D3763
	35.0 J @Temperature -30.0 °C	25.8 ft-lb @Temperature -22.0 °F	ASTM D3763
Dart Drop, Total Energy	56.0 J	41.3 ft-lb	ASTM D3763
	56.0 J @Temperature 23.0 °C	41.3 ft-lb @Temperature 73.4 °F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	48.0 μm/m-°C	26.7 μin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	ISO 11359-2
CTE, linear, Parallel 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	ASTM E 831
CTE, linear, Transverse to Flow	63.0 μm/m-°C	35.0 μin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	ISO 11359-2
CTE, linear, Transverse to Flow	64.0 μm/m-°C	35.6 μin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	ASTM E 831

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	86.0 °C	197 °F	Flatw 80*10*4 sp=64mm; ISO 75/A1
	90.0 °C	194 °F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	97.0 °C	207 °F	Rate B/50; ASTM D1525
	97.0 °C	207 °F	Rate B/50; ISO 306
	100 °C	212 °F	Rate B/120; ISO 306
Flammability, UL94	V-0	V-0	UL 94 by SABIC-IP
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	5VB	5VB	UL 94 by SABIC-IP
	@Thickness 1.50 mm	@Thickness 0.0591 in	

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