

SABIC Innovative Plastics Cycloy® CX7240U PC+ABS (Europe-Africa-Middle East)

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

Material Notes:

Cycloy* CX7240U resin is an injection moldable PC/ABS blend with a UV stabilization package. It contains non-brominated and non-chlorinated flame retardant systems to meet thin wall flame resistance. Excellent flow and impact balance together with the thin wall flame resistance and all color options make Cycloy CX7240U an ideal candidate for a wide variety of thin wall applications. This data was supplied by SABIC-IP for the Europe-Africa-Middle East region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycloy-CX7240U-PCABS-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ASTM D 792
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.10 %	0.10 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.20 % @Temperature 23.0 °C	0.20 % @Temperature 73.4 °F	ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm @Thickness 3.20 mm	0.0040 - 0.0060 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	15 g/10 min @Load 2.16 kg, Temperature 260 °C	15 g/10 min @Load 4.76 lb, Temperature 500 °F	[cm ³ /10 min] Melt Volume Rate; ISO 1133
	16 g/10 min @Load 2.16 kg, Temperature 260 °C	16 g/10 min @Load 4.76 lb, Temperature 500 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	50 mm/min; ISO 527
	58.0 MPa	8410 psi	Type I, 50 mm/min; ASTM D 638
Tensile Strength, Yield	65.0 MPa	9430 psi	Type I, 50 mm/min; ASTM D 638
	65.0 MPa	9430 psi	50 mm/min; ISO 527
Elongation at Break	90 %	90 %	50 mm/min; ISO 527
	100 %	100 %	Type I, 50 mm/min; ASTM D 638

Elongation at Yield Mechanical Properties	4.0 % Metric	4.0 % English	50 mm/min; ISO 527 Comments
	4.1 %	4.1 %	Type I, 50 mm/min; ASTM D 638
Tensile Modulus	2.53 GPa	367 ksi	1 mm/min; ISO 527
	2.95 GPa	428 ksi	50 mm/min; ASTM D 638
Flexural Yield Strength	96.0 MPa	13900 psi	2 mm/min; ISO 178
	104 MPa	15100 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	2.50 GPa	363 ksi	2 mm/min; ISO 178
	2.75 GPa	399 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	1.00 J/cm @Temperature -30.0 °C	1.87 ft-lb/in @Temperature -22.0 °F	ASTM D 256
	5.00 J/cm @Temperature 23.0 °C	9.37 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Izod Impact, Notched (ISO)	10.0 kJ/m ² @Temperature -30.0 °C	4.76 ft-lb/in ² @Temperature -22.0 °F	80*10*3; ISO 180/1A
	20.0 kJ/m ² @Temperature 23.0 °C	9.52 ft-lb/in ² @Temperature 73.4 °F	80*10*3; ISO 180/1A
Charpy Impact, Notched	1.00 J/cm ² @Temperature -30.0 °C	4.76 ft-lb/in ² @Temperature -22.0 °F	V-notch Edgew 80*10*3 sp=62mm; ISO 179/1eA
	2.00 J/cm ² @Temperature 23.0 °C	9.52 ft-lb/in ² @Temperature 73.4 °F	V-notch Edgew 80*10*3 sp=62mm; ISO 179/1eA
Impact Test	65.0 J @Temperature 23.0 °C	47.9 ft-lb @Temperature 73.4 °F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	62.0 µm/m-°C @Temperature -40.0 - 40.0 °C	34.4 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
	62.5 µm/m-°C @Temperature -40.0 - 40.0 °C	34.7 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
	53.5 µm/m-°C	29.7 µin/in-°F	

CTE, linear, Transverse to Flow Thermal Properties	Metric @ Temperature -40.0 - 40.0 °C	English @ Temperature -40.0 - 104 °F	ASTM E 831 Comments
	54.0 µm/m-°C	30.0 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 0.46 MPa (66 psi)	100 °C @Thickness 3.20 mm	212 °F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	93.0 °C	199 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	89.0 °C @Thickness 3.20 mm	192 °F @Thickness 0.126 in	unannealed; ASTM D 648
	99.0 °C @Thickness 6.40 mm	210 °F @Thickness 0.252 in	unannealed; ASTM D 648
Vicat Softening Point	106 °C	223 °F	Rate B/50; ASTM D 1525
	110 °C	230 °F	Rate B/50; ISO 306
	113 °C	235 °F	Rate B/120; ISO 306
UL RTI, Electrical	90.0 °C	194 °F	UL 746B
UL RTI, Mechanical with Impact	90.0 °C	194 °F	UL 746B
UL RTI, Mechanical without Impact	90.0 °C	194 °F	UL 746B
Flammability, UL94	V-2 @Thickness 0.400 mm	V-2 @Thickness 0.0157 in	UL 94
	V-1 @Thickness 0.600 mm	V-1 @Thickness 0.0236 in	UL 94
	V-0 @Thickness 0.750 mm	V-0 @Thickness 0.0295 in	UL 94
	5VB @Thickness 1.50 mm	5VB @Thickness 0.0591 in	UL 94
	5VA @Thickness 3.00 mm	5VA @Thickness 0.118 in	UL 94
Glow Wire Test	800 °C @Thickness 3.00 mm	1470 °F @Thickness 0.118 in	Glow Wire Ignitability Temperature; IEC 60695-2-13
	825 °C	1520 °F	

Thermal Properties	Metric @ Thickness 1.00 mm	English @ Thickness 0.0394 in	Comments Glow Wire Ignitability Temperature; IEC 60695-2-13
	960 °C @Thickness 0.750 mm	1760 °F @Thickness 0.0295 in	Glow Wire Flammability Index; IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	175 - 250 V	175 - 250 V	PLC code 3; UL 746A
Hot Wire Ignition, HWI	15 - 30 sec	15 - 30 sec	PLC code 3; UL 746A
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	surface, PLC code 0; UL 746A

Descriptive Properties	Value	Comments
Ball Pressure Test, 75°C +/- 2°C	PASS	IEC 60695-10-2

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