

SABIC Innovative Plastics Cycloy® CY6414 PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycloy-CY6414-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	ISO 1183
Melt Flow	14 g/10 min @Load 5.00 kg, Temperature 260 °C	14 g/10 min @Load 11.0 lb, Temperature 500 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	62.0 MPa	8990 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	64.0 MPa	9280 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	85 %	85 %	Type I, 50 mm/min; ASTM D638
	>= 100 %	>= 100 %	50 mm/min; ISO 527
Elongation at Yield	5.7 %	5.7 %	50 mm/min; ISO 527
	6.0 %	6.0 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.33 GPa	338 ksi	5 mm/min; ASTM D638
Izod Impact, Notched	7.95 J/cm	14.9 ft-lb/in	ASTM D256
	2.15 J/cm @Temperature -30.0 °C	4.03 ft-lb/in @Temperature -22.0 °F	ASTM D256
	5.25 J/cm @Temperature 0.000 °C	9.84 ft-lb/in @Temperature 32.0 °F	ASTM D256
Charpy Impact, Notched	2.80 J/cm ²	13.3 ft-lb/in ²	Edgew 80*10*3 sp=62mm; ISO 179/1eA
	1.20 J/cm ² @Temperature -30.0 °C	5.71 ft-lb/in ² @Temperature -22.0 °F	Edgew 80*10*3 sp=62mm; ISO 179/1eA
	1.70 J/cm ² @Temperature 0.000 °C	8.09 ft-lb/in ² @Temperature 32.0 °F	Edgew 80*10*3 sp=62mm; ISO 179/1eA

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric ^{m/m-°C}	English ^{in-°F}	Comments
CTE, linear, Parallel to Flow	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	ISO 11359-2
CTE, linear, Transverse to Flow	70.0 µm/m-°C @Temperature -40.0 - 40.0 °C	38.9 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	118 °C @Thickness 6.40 mm	244 °F @Thickness 0.252 in	unannealed; ASTM D648
Vicat Softening Point	133 °C	271 °F	Rate B/50; ISO 306
	134 °C	273 °F	Rate B/120; ISO 306
Flammability, UL94	V-0 @Thickness 1.20 mm	V-0 @Thickness 0.0472 in	UL 94
	5VB @Thickness 2.50 mm	5VB @Thickness 0.0984 in	UL 94
Oxygen Index	32 %	32 %	ISO 4589
Glow Wire Test	775 °C	1430 °F	IEC 60695-2-13
	775 °C	1430 °F	IEC 60695-2-13
	775 °C	1430 °F	IEC 60695-2-13
	960 °C @Thickness 0.750 mm	1760 °F @Thickness 0.0295 in	IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Surface Resistance	>= 4.00e+16 ohm	>= 4.00e+16 ohm	ROA; IEC 60093
Dielectric Constant	2.95 @Frequency 1.00e+6 Hz	2.95 @Frequency 1.00e+6 Hz	ASTM D150
	3.01 @Frequency 1000 Hz	3.01 @Frequency 1000 Hz	ASTM D150
Dissipation Factor	0.0017 @Frequency 1000 Hz	0.0017 @Frequency 1000 Hz	ASTM D150
	0.0088 @Frequency 1.00e+6 Hz	0.0088 @Frequency 1.00e+6 Hz	ASTM D150

Electrical Properties	Metric	English	Comments
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	175 - 250 V	175 - 250 V	UL 746A
Hot Wire Ignition, HWI	30 - 60 sec	30 - 60 sec	UL 746A
High Amp Arc Ignition, HAI	60 - 120 arcs	60 - 120 arcs	UL 746A

Descriptive Properties	Value	Comments
Ball Pressure Test, 125°C +/- 2°C	Pass	IEC 60695-10-2
Ball Pressure Test, 125°C +/- 2°C, by VDE	Pass	IEC 60695-10-2

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