

SABIC Innovative Plastics Cycology® C2951 PC+ABS (Asia Pacific)

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

Material Notes:

CYCOLOY C2951 is a flame retardant PC+ABS free from chlorinated or brominated flame retardant additives. High heat resistance is offered for demanding electrical applications, whilst maintaining excellent processability. It is listed under UL-94 5VA at 3.0 mm.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycology-C2951-PCABS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ASTM D792
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	10 g/10 min @Load 2.16 kg, Temperature 260 °C	10 g/10 min @Load 4.76 lb, Temperature 500 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	49.0 MPa	7110 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	63.0 MPa	9140 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	80 %	80 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	4.5 %	4.5 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.89 GPa	419 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	93.0 MPa	13500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.55 GPa	370 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	5.87 J/cm	11.0 ft-lb/in	ASTM D256
Dart Drop, Total Energy	54.0 J @Temperature 23.0 °C	39.8 ft-lb @Temperature 73.4 °F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	72.0 µm/m-°C @Temperature -40.0 - 40.0 °C	40.0 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
	72.0 µm/m-°C	40.0 µin/in-°F	

Thermal Properties	Metric	English	Comments
	@ Temperature -40.0 - 40.0 °C	@ Temperature -40.0 - 104 °F	
Deflection Temperature at 0.46 MPa (66 psi)	103 °C @Thickness 3.20 mm	217 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	94.0 °C @Thickness 3.20 mm	201 °F @Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	105 °C	221 °F	Rate B/50; ASTM D1525
UL RTI, Electrical	85.0 °C	185 °F	UL 746B
UL RTI, Mechanical with Impact	85.0 °C	185 °F	UL 746B
UL RTI, Mechanical without Impact	85.0 °C	185 °F	UL 746B
Flammability, UL94	V-0 @Thickness 1.49 mm	V-0 @Thickness 0.0587 in	UL 94
	5VB @Thickness 2.48 mm	5VB @Thickness 0.0976 in	UL 94
	5VA @Thickness 2.99 mm	5VA @Thickness 0.118 in	UL 94

Electrical Properties	Metric	English	Comments
Arc Resistance	60 - 120 sec	60 - 120 sec	Tungsten; ASTM D495
Comparative Tracking Index	400 - 600 V	400 - 600 V	UL 746A
Hot Wire Ignition, HWI	60 - 120 sec	60 - 120 sec	UL 746A
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	UL 746A
High Voltage Arc-Tracking Rate, HVTR	25.4 - 80.0 mm/min	1.00 - 3.15 in/min	UL 746A

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