

SABIC Innovative Plastics Cycloy® C2800 PC+ABS

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

Material Notes:

Non-chlorinated and non-brominated flame retardant PC+ABS offering balanced flow and impact properties for various applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycloy-C2800-PCABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 g/cc	ASTM D792
	1.18 g/cc	1.18 g/cc	color; ASTM D792
Water Absorption	0.10 %	0.10 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Moisture Absorption at Equilibrium	0.40 %	0.40 %	ASTM D570
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Flow	16 g/10 min	16 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 260 °C	@Load 4.76 lb, Temperature 500 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Yield	58.0 MPa	8410 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	50 %	50 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	5.0 %	5.0 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.68 GPa	389 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	96.0 MPa	13900 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	2.68 GPa	389 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	4.27 J/cm	8.00 ft-lb/in	ASTM D256
Dart Drop, Total Energy	58.0 J	42.8 ft-lb	ASTM D3763

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	72.0 µm/m-°C @Temperature -40.0 - 60.0 °C	40.0 µin/in-°F @Temperature -40.0 - 140 °F	ASTM E 831
CTE, linear, Transverse to Flow	72.0 µm/m-°C @Temperature -40.0 - 60.0 °C	40.0 µin/in-°F @Temperature -40.0 - 140 °F	ASTM E 831
Thermal Conductivity	0.200 W/m-K	1.39 BTU-in/hr-ft ² -°F	ASTM C177
Deflection Temperature at 1.8 MPa (264 psi)	73.0 °C @Thickness 3.20 mm	163 °F @Thickness 0.126 in	unannealed; ASTM D648
	80.0 °C @Thickness 6.40 mm	176 °F @Thickness 0.252 in	unannealed; ASTM D648
Vicat Softening Point	90.0 °C	194 °F	Rate B/50; ASTM D1525
UL RTI, Electrical	80.0 °C	176 °F	UL 746B
UL RTI, Mechanical with Impact	70.0 °C	158 °F	UL 746B
UL RTI, Mechanical without Impact	80.0 °C	176 °F	UL 746B
Flammability, UL94	V-2 @Thickness 0.880 mm	V-2 @Thickness 0.0346 in	UL 94
	V-0 @Thickness 1.47 mm	V-0 @Thickness 0.0579 in	UL 94
	5VB @Thickness 2.31 mm	5VB @Thickness 0.0909 in	UL 94
Oxygen Index	35 %	35 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+17 ohm-cm	1.00e+17 ohm-cm	ASTM D257
Surface Resistance	>= 1.00e+14 ohm	>= 1.00e+14 ohm	ASTM D257
Dielectric Constant	3.0 @Frequency 50.0 - 60.0 Hz	3.0 @Frequency 50.0 - 60.0 Hz	ASTM D150
	3.0	3.0	

Electrical Properties	Metric @Frequency 100 Hz	English @Frequency 100 Hz	ASTM D150 Comments
Dielectric Strength	17.9 kV/mm @Thickness 3.20 mm	455 kV/in @Thickness 0.126 in	in oil; ASTM D149
Dissipation Factor	0.0048 @Frequency 50.0 - 60.0 Hz	0.0048 @Frequency 50.0 - 60.0 Hz	ASTM D150
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	15 - 30 sec	15 - 30 sec	UL 746A
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	UL 746A
High Voltage Arc-Tracking Rate, HVTR	80.0 - 150 mm/min	3.15 - 5.91 in/min	UL 746A

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