

SABIC Innovative Plastics Cycloy® C6200 PC+ABS

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

Material Notes:

Non-chlorinated, nombrominated flame retardant PC/ABS offering balanced heat, flow and impact to meet various application needs.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycloy-C6200-PCABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 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
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm @Thickness 3.20 mm	0.0040 - 0.0060 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	14.5 g/10 min @Load 2.16 kg, Temperature 260 °C	14.5 g/10 min @Load 4.76 lb, Temperature 500 °F	ASTM D1238
Spiral Flow	68.58 cm @Temperature 260 °C	27.00 in @Temperature 500 °F	10 ips, 3.175 X 1524 mm

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	66.0 MPa	9570 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	50 %	50 %	Type I, 50 mm/min; ASTM D638
Flexural Yield Strength	103 MPa	14900 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	5.34 J/cm	10.0 ft-lb/in	ASTM D256
Dart Drop, Total Energy	61.0 J	45.0 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
	54.0 J @Temperature -30.0 °C	39.8 ft-lb @Temperature -22.0 °F	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	87.0 °C @Thickness 3.20 mm	189 °F @Thickness 0.126 in	unannealed; ASTM D648

Thermal Properties	Metric	English	Comments
	@Thickness 6.40 mm	@Thickness 0.252 in	unannealed, ASTM D6416
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	HB	HB	UL 94
	@Thickness 0.710 mm	@Thickness 0.0280 in	
	V-1	V-1	UL 94
	@Thickness 1.21 mm	@Thickness 0.0476 in	
	V-0	V-0	UL 94
	@Thickness 1.47 mm	@Thickness 0.0579 in	
	5VB	5VB	UL 94
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	5VA	5VA	UL 94
	@Thickness 3.40 mm	@Thickness 0.134 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00 \times 10^{15}$ ohm-cm	$\geq 1.00 \times 10^{15}$ ohm-cm	IEC 60093
Surface Resistance	$\geq 1.00 \times 10^{15}$ ohm	$\geq 1.00 \times 10^{15}$ ohm	ROA; IEC 60093
Dielectric Constant	2.7	2.7	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	2.8	2.8	IEC 60250
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
Dielectric Strength	17.0 kV/mm	432 kV/in	in oil; IEC 60243-1
	@Thickness 3.20 mm	@Thickness 0.126 in	
	25.0 kV/mm	635 kV/in	in oil; IEC 60243-1
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	35.0 kV/mm	889 kV/in	in oil; IEC 60243-1
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	0.0040	0.0040	

Electrical Properties	Metric	English	Comments
Dissipation Factor	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	IEC 60250
	0.0080	0.0080	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	IEC 60250
Arc Resistance	60 - 120 sec	60 - 120 sec	Tungsten; ASTM D495
Comparative Tracking Index	250 - 400 V	250 - 400 V	UL 746A
Hot Wire Ignition, HWI	30 - 60 sec	30 - 60 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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