

PTS PCA-2201NHV Non Bromine, Non Chlorine Flame Retardant Polycarbonate/ABS Alloy, UV Stabilized

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

Material Notes:

Information provided by Polymer Technology and Services, LLC (PTS).

Order this product through the following link:

http://www.lookpolymers.com/polymer_PTS-PCA-2201NHV-Non-Bromine-Non-Chlorine-Flame-Retardant-PolycarbonateABS-Alloy-UV-Stabilized.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.004 - 0.006 cm/cm	0.004 - 0.006 in/in	ASTM D955
Melt Flow	12 g/10 min	12 g/10 min	ASTM D1238
	@Load 3.80 kg, Temperature 230 °C	@Load 8.38 lb, Temperature 446 °F	
	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
Tensile Strength, Yield	60.0 MPa	8700 psi	ASTM D638
	@Thickness 3.17 mm	@Thickness 0.125 in	
Elongation at Break	65 %	65 %	ASTM D638
	@Thickness 3.17 mm	@Thickness 0.125 in	
Flexural Yield Strength	88.9 MPa	12900 psi	ASTM D790
	@Thickness 3.17 mm	@Thickness 0.125 in	
Flexural Modulus	2.69 GPa	390 ksi	ASTM D790
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Notched	5.87 J/cm	11.0 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	85.0 °C	185 °F	ASTM D648
UL RTI, Electrical	60.0 °C	140 °F	

UL RTI, Mechanical with Impact Thermal Properties	60.0 °C Metric	140 °F English	Comments
UL RTI, Mechanical without Impact	60.0 °C	140 °F	
Flammability, UL94	V-0	V-0	all colors; UL file E155285
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	5VB	5VB	all colors; UL file E155285
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	5VA	5VA	
	@Thickness 2.50 mm	@Thickness 0.0984 in	
	5VA	5VA	all colors; UL file E155285
	@Thickness 3.0 mm	@Thickness 0.12 in	
Glow Wire Test	700 °C	1290 °F	GWIT; IEC 60695-2-13
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	700 °C	1290 °F	GWIT; IEC 60695-2-13
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	700 °C	1290 °F	GWIT; IEC 60695-2-13
	@Thickness 3.00 mm	@Thickness 0.118 in	
	925 °C	1700 °F	GWFI; IEC 60695-2-12
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	925 °C	1700 °F	GWFI; IEC 60695-2-12
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	950 °C	1740 °F	GWFI; IEC 60695-2-12
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Dielectric Strength	18.0 kV/mm	457 kV/in	
Comparative Tracking Index	>= 600 V	>= 600 V	PLC 0
Hot Wire Ignition, HWI	15 - 30 sec	15 - 30 sec	PLC 3
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	15 - 30 sec	15 - 30 sec	PLC 3
	@Thickness 2.50 mm	@Thickness 0.0984 in	
	30 - 60 sec	30 - 60 sec	

Electrical Properties	Metric @Thickness 3.00 mm	English @Thickness 0.118 in	PLC 2 Comments
High Amp Arc Ignition, HAI	60 - 120 arcs	60 - 120 arcs	PLC 1
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	60 - 120 arcs	60 - 120 arcs	PLC 1
	@Thickness 2.50 mm	@Thickness 0.0984 in	
	60 - 120 arcs	60 - 120 arcs	PLC 1
	@Thickness 3.00 mm	@Thickness 0.118 in	
High Voltage Arc-Tracking Rate, HVTR	80.0 - 150 mm/min	3.15 - 5.91 in/min	PLC 3

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