

Clariant Renol PCSP0005 Polycarbonate/ASA Alloy, Flame Retardant

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

Material Notes:

Data provided by Clariant Masterbatches

Order this product through the following link:

http://www.lookpolymers.com/polymer_Clariant-Renol-PCSP0005-PolycarbonateASA-Alloy-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	60.0 MPa	8700 psi	ASTM D638
Elongation at Yield	4.0 %	4.0 %	ASTM D638
Flexural Yield Strength	100 MPa	14500 psi	ASTM D790
Flexural Modulus	2.69 GPa	390 ksi	ASTM D790
Izod Impact, Notched	3.47 J/cm @Temperature 22.8 °C	6.50 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	87.8 °C	190 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 1.57 mm	V-0 @Thickness 0.0618 in	

Processing Properties	Metric	English	Comments
Melt Temperature	232 - 266 °C	450 - 510 °F	
Mold Temperature	65.6 - 79.4 °C	150 - 175 °F	
Dry Time	2 - 4 hour @Temperature 85.0 °C	2 - 4 hour @Temperature 185 °F	to ensure moisture content is less than 0.05%
Injection Pressure	4.96 - 8.27 MPa	720 - 1200 psi	Secondary
	8.27 - 13.8 MPa	1200 - 2000 psi	Initial
Back Pressure	0.345 - 1.72 MPa	50.0 - 250 psi	

Processing Properties	Metric 	English 	Comments
Screw Speed	20 - 100 rpm	20 - 100 rpm	

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