

Clariant Renol BR7140 Polycarbonate/ABS Alloy

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

Material Notes:

Data provided by Clariant Masterbatches

Order this product through the following link:

http://www.lookpolymers.com/polymer_Clariant-Renol-BR7140-PolycarbonateABS-Alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	55.2 MPa	8000 psi	ASTM D638
Flexural Yield Strength	89.6 MPa	13000 psi	ASTM D790
Flexural Modulus	2.28 GPa	330 ksi	ASTM D790
Izod Impact, Notched	6.41 J/cm @Temperature 22.8 °C	12.0 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	53.9 °C	129 °F	ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	254 - 282 °C	490 - 540 °F	
Mold Temperature	65.6 - 93.3 °C	150 - 200 °F	
Dry Time	2 - 4 hour @Temperature 104 °C	2 - 4 hour @Temperature 220 °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	
Shot Size	30 - 80 %	30 - 80 %	
Screw Speed	20 - 100 rpm	20 - 100 rpm	

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