

## Clariant Renol PCSP0006 Polycarbonate, Laser Markable

Category : Polymer , Thermoplastic , Polycarbonate (PC)

**Material Notes:**

Data provided by Clariant Masterbatches

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Clariant-Renol-PCSP0006-Polycarbonate-Laser-Markable.php](http://www.lookpolymers.com/polymer_Clariant-Renol-PCSP0006-Polycarbonate-Laser-Markable.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	60.7 MPa	8800 psi	ASTM D638
Elongation at Break	>= 15 %	>= 15 %	ASTM D638
Flexural Yield Strength	96.5 MPa	14000 psi	ASTM D790
Flexural Modulus	2.28 GPa	330 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	132 °C	270 °F	ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	266 - 293 °C	510 - 560 °F	
Mold Temperature	65.6 - 93.3 °C	150 - 200 °F	
Dry Time	2 - 4 hour @Temperature 121 °C	2 - 4 hour @Temperature 250 °F	to ensure the moisture level is less than 0.02%
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	

**Contact Songhan Plastic Technology Co.,Ltd.**

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