

## Clariant Renol TPU2072A Polyurethane Elastomer, Ether Based

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyurethane, TP , Thermoplastic Polyurethane, Elastomer, Ether Grade

**Material Notes:**

Data provided by Clariant Masterbatches

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Clariant-Renol-TPU2072A-Polyurethane-Elastomer-Ether-Based.php](http://www.lookpolymers.com/polymer_Clariant-Renol-TPU2072A-Polyurethane-Elastomer-Ether-Based.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0040 - 0.0050 cm/cm	0.0040 - 0.0050 in/in	ASTM D955
Melt Flow	11 g/10 min @Load 8.70 kg, Temperature 190 °C	11 g/10 min @Load 19.2 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	24.7 MPa	3580 psi	ASTM D412
Tensile Modulus	2.07 GPa	300 ksi	ASTM D412

Thermal Properties	Metric	English	Comments
Vicat Softening Point	75.6 °C	168 °F	ASTM D1525

Processing Properties	Metric	English	Comments
Melt Temperature	193 - 210 °C	380 - 410 °F	
Mold Temperature	37.8 - 65.6 °C	100 - 150 °F	
Dry Time	2 - 4 hour @Temperature 104 °C	2 - 4 hour @Temperature 220 °F	to ensure 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	0.000 - 0.345 MPa	0.000 - 50.0 psi	
Shot Size	30 - 80 %	30 - 80 %	
Screw Speed	20 - 100 rpm	20 - 100 rpm	

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