

Clariant Renol TPU1088A Polyurethane Elastomer, Aromatic Polyester

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

Material Notes:

Data provided by Clariant Masterbatches

Order this product through the following link:

http://www.lookpolymers.com/polymer_Clariant-Renol-TPU1088A-Polyurethane-Elastomer-Aromatic-Polyester.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0090 cm/cm	0.0090 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	88	88	ASTM D2240
Tensile Strength, Yield	42.1 MPa	6100 psi	ASTM D638
	7.067 MPa	1025 psi	ASTM D412
	@Strain 100 %	@Strain 100 %	
Elongation at Break	375 %	375 %	ASTM D638
Flexural Modulus	0.0462 GPa	6.70 ksi	ASTM D790
Compression Set	14 %	14 %	ASTM D648
	@Temperature 23.0 °C, Time 79200 sec	@Temperature 73.4 °F, Time 22.0 hour	
	49 %	49 %	ASTM D648
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	134 °C	274 °F	Rate A; ASTM D1526

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	2 - 4 hour	to ensure moisture level is less than 0.02%
	@Temperature 104 °C	@Temperature 220 °F	
Injection Pressure	4.96 - 8.27 MPa	720 - 1200 psi	Secondary

Processing Properties	Metric 0.27 - 13.8 MPa	English 1200 - 2000 psi	Comments 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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