

Clariant Renol TPU2087AFR Polyurethane Elastomer, Flame Retardant

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

Material Notes:

Data provided by Clariant Masterbatches

Order this product through the following link:

http://www.lookpolymers.com/polymer_Clariant-Renol-TPU2087AFR-Polyurethane-Elastomer-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc	1.16 g/cc	ASTM D792
Melt Flow	8.0 g/10 min	8.0 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	84	84	ASTM D2240
Tensile Strength, Yield	35.9 MPa	5200 psi	ASTM D412
Elongation at Yield	9.0 %	9.0 %	ASTM D638

Thermal Properties	Metric	English	Comments
Flammability, UL94	V-0	V-0	
	@Thickness 1.52 mm	@Thickness 0.0600 in	

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
	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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