

Huntsman IROGRAN® A 92 K 5031 TPU-High Temperature Performance

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

Material Notes:

Polycaprolactone and ether based. Good processability and compression set. Excellent resistance to high temperatures, water, grease, and oils.. Used in seals, wheels, and rollers. Information provided by Huntsman

Order this product through the following link:

http://www.lookpolymers.com/polymer_Huntsman-IROGRAN-A-92-K-5031-TPU-High-Temperature-Performance.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	ASTM D995

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	92	92	ASTM D2240
Hardness, Shore D	46	46	ASTM D2240
Tensile Strength at Break	54.0 MPa	7830 psi	DIN 53504
Elongation at Break	580 %	580 %	ASTM D412
100% Modulus	0.0114 GPa	1.65 ksi	DIN 53504
300% Modulus	0.0180 GPa	2.61 ksi	DIN 53504
Rebound	41 %	41 %	Bayshore; ASTM D2632
Tear Strength	130 kN/m	740 pli	ASTM D624
Abrasion	20	20	[mm ³]; ISO 4649
Compression Set	14 %	14 %	ASTM D395
	@Temperature 23.0 °C, Time 252000 sec	@Temperature 73.4 °F, Time 70.0 hour	
	26 %	26 %	ASTM D395
	@Temperature 70.0 °C, Time 86400 sec	@Temperature 158 °F, Time 24.0 hour	

Thermal Properties	Metric	English	Comments
Melting Point	180 - 195 °C	356 - 383 °F	Huntsman/TMA

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