

Huntsman IROGRAN® A 95 K 4977 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-95-K-4977-TPU-High-Temperature-Performance.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.013 cm/cm	0.013 in/in	ASTM D995

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	94	94	ASTM D2240
Hardness, Shore D	46	46	ASTM D2240
Tensile Strength at Break	55.0 MPa	7980 psi	DIN 53504
Elongation at Break	510 %	510 %	ASTM D412
100% Modulus	0.0125 GPa	1.81 ksi	DIN 53504
300% Modulus	0.0245 GPa	3.55 ksi	DIN 53504
Rebound	29 %	29 %	Bayshore; ASTM D2632
Tear Strength	133 kN/m	760 pli	ASTM D624
Abrasion	35	35	[mm ³]; ISO 4649
Compression Set	15 %	15 %	
	@Temperature 23.0 °C, Time 252000 sec	@Temperature 73.4 °F, Time 70.0 hour	ASTM D395
	25 %	25 %	
	@Temperature 70.0 °C, Time 86400 sec	@Temperature 158 °F, Time 24.0 hour	ASTM D395

Thermal Properties	Metric	English	Comments
Melting Point	210 - 220 °C	410 - 428 °F	Huntsman/TMA

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