

Huntsman IROGRAN® A 95 P 5044 DP TPU-Polyether

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

Material Notes:

Excellent resistance to hydrolysis and microbial attack. Suggested for injection molding and extrusion. Information provided by Huntsman

Order this product through the following link:

http://www.lookpolymers.com/polymer_Huntsman-IROGRAN-A-95-P-5044-DP-TPU-Polyether.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	ASTM D995

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	95	95	ASTM D2240
Hardness, Shore D	42	42	ASTM D2240
Tensile Strength at Break	50.0 MPa	7250 psi	DIN 53504
Elongation at Break	470 %	470 %	ASTM D412
100% Modulus	0.0123 GPa	1.78 ksi	DIN 53504
300% Modulus	0.0308 GPa	4.47 ksi	DIN 53504
Rebound	35 %	35 %	Bayshore; ASTM D2632
Tear Strength	105 kN/m	600 pli	ASTM D624
Abrasion	30	30	[mm ³]; ISO 4649
Compression Set	29 %	29 %	ASTM D395
	@Temperature 23.0 °C, Time 252000 sec	@Temperature 73.4 °F, Time 70.0 hour	
	82 %	82 %	ASTM D395
	@Temperature 70.0 °C, Time 86400 sec	@Temperature 158 °F, Time 24.0 hour	

Thermal Properties	Metric	English	Comments
Melting Point	175 - 188 °C	347 - 370 °F	Huntsman/TMA

Optical Properties	Metric	English	Comments
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Transmission Visible Optical Properties	90 % Metric	90 % English	transparent; thickness not reported Comments
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