

Huntsman IROGRAN® A 80 P 5039 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-80-P-5039-TPU-Polyether.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0090 cm/cm	0.0090 in/in	ASTM D995

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	ASTM D2240
Hardness, Shore D	29	29	ASTM D2240
Tensile Strength at Break	32.0 MPa	4640 psi	DIN 53504
Elongation at Break	760 %	760 %	ASTM D412
100% Modulus	0.00460 GPa	0.667 ksi	DIN 53504
300% Modulus	0.00870 GPa	1.26 ksi	DIN 53504
Rebound	47 %	47 %	Bayshore; ASTM D2632
Tear Strength	84.1 kN/m	480 pli	ASTM D624
Abrasion	30	30	[mm ³]; ISO 4649
Compression Set	23 %	23 %	ASTM D395
	@Temperature 23.0 °C, Time 252000 sec	@Temperature 73.4 °F, Time 70.0 hour	
Compression Set	43 %	43 %	ASTM D395
	@Temperature 70.0 °C, Time 86400 sec	@Temperature 158 °F, Time 24.0 hour	

Thermal Properties	Metric	English	Comments
Melting Point	145 - 155 °C	293 - 311 °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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Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China