

## Huntsman IROGRAN® A 92 P 4207 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-92-P-4207-TPU-Polyether.php](http://www.lookpolymers.com/polymer_Huntsman-IROGRAN-A-92-P-4207-TPU-Polyether.php)

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in <sup>3</sup>	ASTM D792
Linear Mold Shrinkage	0.0080 cm/cm	0.0080 in/in	ASTM D995
Melt Flow	15 - 30 g/10 min	15 - 30 g/10 min	Melt Volume Rate (cm <sup>3</sup> /10 min)

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	92	92	ASTM D2240
Hardness, Shore D	40	40	ASTM D2240
Tensile Strength at Break	49.0 MPa	7110 psi	DIN 53504
Elongation at Break	640 %	640 %	ASTM D412
100% Modulus	0.00950 GPa	1.38 ksi	DIN 53504
300% Modulus	0.0166 GPa	2.41 ksi	DIN 53504
Rebound	34 %	34 %	Bayshore; ASTM D2632
Tear Strength	119 kN/m	680 pli	ASTM D624
Abrasion	25	25	[mm <sup>3</sup> ]; ISO 4649
Compression Set	28 %	28 %	ASTM D395
	@Temperature 23.0 Â°C, Time 252000 sec	@Temperature 73.4 Â°F, Time 70.0 hour	
Compression Set	44 %	44 %	ASTM D395
	@Temperature 70.0 Â°C, Time 86400 sec	@Temperature 158 Â°F, Time 24.0 hour	

Thermal Properties	Metric	English	Comments
Melting Point	165 - 188 Â°C	329 - 370 Â°F	Huntsman/TMA

## **Contact Songhan Plastic Technology Co.,Ltd.**

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