

## Huntsman IROGRAN® A 85 D 5001 Polyester-Based TPU-Injection Extrusion Grade

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

### Material Notes:

High Hydrolysis resistance and good crystallinity. Suggested for extrusion. Information provided by Huntsman

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Huntsman-IROGRAN-A-85-D-5001-Polyester-Based-TPU-Injection-Extrusion-Grade.php](http://www.lookpolymers.com/polymer_Huntsman-IROGRAN-A-85-D-5001-Polyester-Based-TPU-Injection-Extrusion-Grade.php)

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in <sup>3</sup>	ASTM D792
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	ASTM D995

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	85	85	ASTM D2240
Hardness, Shore D	35	35	ASTM D2240
Tensile Strength at Break	40.0 MPa	5800 psi	DIN 53504
Elongation at Break	800 %	800 %	ASTM D412
100% Modulus	0.00550 GPa	0.798 ksi	DIN 53504
300% Modulus	0.0126 GPa	1.83 ksi	DIN 53504
Rebound	36 %	36 %	Bayshore; ASTM D2632
Tear Strength	105 kN/m	600 pli	ASTM D624
Abrasion	30	30	[mm <sup>3</sup> ]; ISO 4649
Compression Set	19 %	19 %	ASTM D395
	@Temperature 23.0 °C, Time 252000 sec	@Temperature 73.4 °F, Time 70.0 hour	
Compression Set	36 %	36 %	ASTM D395
	@Temperature 70.0 °C, Time 86400 sec	@Temperature 158 °F, Time 24.0 hour	

Thermal Properties	Metric	English	Comments
Melting Point	165 - 175 °C	329 - 347 °F	Huntsman/TMA

Electrical Properties	Metric	English	Comments
Surface Resistance	5.00e+8 ohm	5.00e+8 ohm	antistat

## Contact Songhan Plastic Technology Co.,Ltd.

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