

## Huntsman IROGRAN® A 89 E 4372 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-89-E-4372-Polyester-Based-TPU-Injection-Extrusion-Grade.php](http://www.lookpolymers.com/polymer_Huntsman-IROGRAN-A-89-E-4372-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	0.011 cm/cm	0.011 in/in	ASTM D995

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	87	87	ASTM D2240
Hardness, Shore D	38	38	ASTM D2240
Tensile Strength at Break	50.0 MPa	7250 psi	DIN 53504
Elongation at Break	660 %	660 %	ASTM D412
100% Modulus	0.00600 GPa	0.870 ksi	DIN 53504
300% Modulus	0.0115 GPa	1.67 ksi	DIN 53504
Rebound	40 %	40 %	Bayshore; ASTM D2632
Tear Strength	99.9 kN/m	570 pli	ASTM D624
Abrasion	30	30	[mm <sup>3</sup> ]; ISO 4649
Compression Set	17 %	17 %	ASTM D395
	@Temperature 23.0 °C, Time 252000 sec	@Temperature 73.4 °F, Time 70.0 hour	
	38 %	38 %	ASTM D395
	@Temperature 70.0 °C, Time 86400 sec	@Temperature 158 °F, Time 24.0 hour	

Thermal Properties	Metric	English	Comments
Melting Point	180 - 192 °C	356 - 378 °F	Huntsman/TMA

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

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