

## Huntsman IROGRAN® A 92 E 4694 Polyester-Based TPU-Injection Extrusion Grade

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

### Material Notes:

**Introduction:** IROGRAN A 92 E 4694 is a thermoplastic special- polyester-polyurethane for injection moulding and extrusion applications. **Additional characteristics of the product are flexibility and high mechanical resistance. Performance Features:** Good melt flow High wear resistance High oil resistance Dynamically highly loadable Low-temperature flexibility **Applications:** For the production of tooth belts, round cords profiles, technical parts. **Information provided by Huntsman**

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Huntsman-IROGRAN-A-92-E-4694-Polyester-Based-TPU-Injection-Extrusion-Grade.php](http://www.lookpolymers.com/polymer_Huntsman-IROGRAN-A-92-E-4694-Polyester-Based-TPU-Injection-Extrusion-Grade.php)

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in <sup>3</sup>	ASTM D792
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	ASTM D995
Melt Index of Compound	57 g/10 min @Load 10.0 kg, Temperature 210 °C	57 g/10 min @Load 22.0 lb, Temperature 410 °F	cm <sup>3</sup> /10 min

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	92	92	ASTM D2240
Hardness, Shore D	41	41	ASTM D2240
Tensile Strength at Break	55.0 MPa	7980 psi	DIN 53504
Elongation at Break	570 %	570 %	ASTM D412
100% Modulus	0.00820 GPa	1.19 ksi	DIN 53504
300% Modulus	0.0197 GPa	2.86 ksi	DIN 53504
Rebound	32 %	32 %	Bayshore; ASTM D2632
Tear Strength	137 kN/m	780 pli	ASTM D624
Abrasion	35	35	[mm <sup>3</sup> ]; ISO 4649
Compression Set	23 % @Temperature 23.0 °C, Time 252000 sec	23 % @Temperature 73.4 °F, Time 70.0 hour	ASTM D395
	40 %	40 %	

Mechanical Properties	Metric	English	ASTM D395 Comments
	@Temperature 70.0 A C, Time 86400 sec	@ Temperature 158 Â°F, Time 24.0 hour	

Thermal Properties	Metric	English	Comments
Melting Point	160 - 190 Â°C	320 - 374 Â°F	Huntsman/TMA

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

Processing Properties	Metric	English	Comments
Feed Temperature	25.0 - 40.0 Â°C	77.0 - 104 Â°F	Extrusion
Front Barrel Temperature	165 - 190 Â°C	329 - 374 Â°F	Extrusion
Nozzle Temperature	170 - 200 Â°C	338 - 392 Â°F	Extrusion
	180 - 200 Â°C	356 - 392 Â°F	Injection
Adapter Temperature	175 - 195 Â°C	347 - 383 Â°F	Extrusion
Die Temperature	175 - 200 Â°C	347 - 392 Â°F	Extrusion
Melt Temperature	170 - 195 Â°C	338 - 383 Â°F	Injection
Mold Temperature	20.0 - 70.0 Â°C	68.0 - 158 Â°F	Injection

Descriptive Properties	Value	Comments
Heating Zone	175-195Â°C	Injection

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