

## Huntsman IROGRAN® A 87 P 4946 TPU-Polyester

Category : Polymer , Thermoplastic , Polyurethane, TP , Thermoplastic Polyurethane (TPUR), Polyester Grade

### Material Notes:

Introduction: IROGRAN A 87 P 4946 is a polyether based thermoplastic polyurethane intended for injection molding and extrusion applications. IROGRAN A 87 P 4946 is part of the HUNTSMAN technical extrusion product range and offers a specially designed, flexible material with high extrudability. Performance Features: High microbial resistance Excellent hydrolysis resistance High stability of melt High production rate Information provided by Alliance Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Huntsman-IROGRAN-A-87-P-4946-TPU-Polyester.php](http://www.lookpolymers.com/polymer_Huntsman-IROGRAN-A-87-P-4946-TPU-Polyester.php)

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in <sup>3</sup>	Injection molded parts; ASTM D792
Linear Mold Shrinkage	0.0080 cm/cm	0.0080 in/in	Injection molded; ASTM D955
Melt Index of Compound	65 g/10 min @Load 21.6 kg, Temperature 190 °C	65 g/10 min @Load 47.6 lb, Temperature 374 °F	MVR, [cm <sup>3</sup> /10 min]

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	87	87	Injection molded parts; ASTM D2240
Hardness, Shore D	38	38	Injection molded parts; ASTM D2240
Tensile Strength at Break	40.0 MPa	5800 psi	Injection molded parts; DIN 53504
Elongation at Break	650 %	650 %	Injection molded parts; DIN 53504
100% Modulus	0.00700 GPa	1.02 ksi	Injection molded parts; DIN 53504
300% Modulus	0.0110 GPa	1.60 ksi	Injection molded parts; DIN 53504
Tear Strength	98.2 kN/m	560 pli	Injection molded parts; ASTM D624
Abrasion	35	35	mm <sup>3</sup> , Injection molded; ISO 4649

Processing Properties	Metric	English	Comments
Feed Temperature	25.0 - 35.0 °C	77.0 - 95.0 °F	Injection
	25.0 - 40.0 °C	77.0 - 104 °F	Extrusion
Middle Barrel Temperature	175 - 185 °C	347 - 365 °F	Extrusion
Nozzle Temperature	180 - 190 °C	356 - 374 °F	Extrusion

Processing Properties	185 - 200 Å°C Metric	365 - 392 Å°F English	Injection Comments
Adapter Temperature	185 - 195 Å°C	365 - 383 Å°F	Extrusion
Die Temperature	185 - 195 Å°C	365 - 383 Å°F	Extrusion
Mold Temperature	20.0 - 50.0 Å°C	68.0 - 122 Å°F	Injection

Descriptive Properties	Value	Comments
Heating Zone	185-195Å°C	Injection

## Contact Songhan Plastic Technology Co.,Ltd.

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