

## Huntsman IROGRAN® A 95 E 4813 Polyester-Based TPU-High Performance Grade

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

### Material Notes:

**Introduction:** IROGRAN A 95 R 4813 is a thermoplastic polyester- polyurethane for injection moulding applications. Additional characteristics of the product are very short cycle times and high dimensional stability. **Performance Features:** Short cycle times High demolding stability High production rates High wear resistance High crystallinity **Applications:** For the production of general injection molding, plugs, bearing shells, bellow valves, o-rings. Information provided by Huntsman

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Huntsman-IROGRAN-A-95-E-4813-Polyester-Based-TPU-High-Performance-Grade.php](http://www.lookpolymers.com/polymer_Huntsman-IROGRAN-A-95-E-4813-Polyester-Based-TPU-High-Performance-Grade.php)

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in <sup>3</sup>	ASTM D792
Linear Mold Shrinkage	0.0080 cm/cm	0.0080 in/in	ASTM D995
Melt Index of Compound	70 g/10 min @Load 21.6 kg, Temperature 210 °C	70 g/10 min @Load 47.6 lb, Temperature 410 °F	cm <sup>3</sup> /10 min

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	95	95	ASTM D2240
Hardness, Shore D	44	44	ASTM D2240
Tensile Strength at Break	41.0 MPa	5950 psi	DIN 53504
Elongation at Break	410 %	410 %	ASTM D412
100% Modulus	0.0100 GPa	1.45 ksi	DIN 53504
300% Modulus	0.0210 GPa	3.05 ksi	DIN 53504
Rebound	35 %	35 %	Bayshore; ASTM D2632
Tear Strength	131 kN/m	750 pli	ASTM D624
Abrasion	30	30	[mm <sup>3</sup> ]; ISO 4649
Compression Set	30 % @Temperature 23.0 °C, Time 252000 sec	30 % @Temperature 73.4 °F, Time 70.0 hour	ASTM D395
	40 %	40 %	

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

Thermal Properties	Metric	English	Comments
Melting Point	170 - 200 Â°C	338 - 392 Â°F	Huntsman/TMA

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

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China