

## Huntsman IROGRAN® A 78 E 4723 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 78 E 4723 is a thermoplastic polyester- polyurethane for injection moulding and extrusion applications.

Additional characteristics of the product are flexibility and high mechanical resistance. Performance Features: High transparence Good melt flow High wear resistance High oil resistance Dynamically highly loadable Applications: For the production of spiral hoses, profiles hoses, jackets for high pressure hoses, technical parts. Information provided by Huntsman

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Huntsman-IROGRAN-A-78-E-4723-Polyester-Based-TPU-Injection-Extrusion-Grade.php](http://www.lookpolymers.com/polymer_Huntsman-IROGRAN-A-78-E-4723-Polyester-Based-TPU-Injection-Extrusion-Grade.php)

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in <sup>3</sup>	ASTM D792
Linear Mold Shrinkage	0.0080 cm/cm	0.0080 in/in	ASTM D995
Melt Index of Compound	50 g/10 min @Load 21.6 kg, Temperature 190 °C	50 g/10 min @Load 47.6 lb, Temperature 374 °F	cm <sup>3</sup> /10 min

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	ASTM D2240
Hardness, Shore D	30	30	ASTM D2240
Tensile Strength at Break	45.0 MPa	6530 psi	DIN 53504
Elongation at Break	660 %	660 %	ASTM D412
100% Modulus	0.00410 GPa	0.595 ksi	DIN 53504
300% Modulus	0.0100 GPa	1.45 ksi	DIN 53504
Rebound	47 %	47 %	Bayshore; ASTM D2632
Tear Strength	89.4 kN/m	510 pli	ASTM D624
Abrasion	25	25	[mm <sup>3</sup> ]; ISO 4649
Compression Set	25 % @Temperature 23.0 °C, Time 252000 sec	25 % @Temperature 73.4 °F, Time 70.0 hour	ASTM D395
	38 %	38 %	

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	156 - 167 Â°C	313 - 333 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

## Contact Songhan Plastic Technology Co.,Ltd.

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