

## Huntsman IROGRAN® A 98 E 4066 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 98 E 4066 is a thermoplastic polyester- polyurethane for injection molding 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 hydrolysis resistance Applications: For the production of technical parts, wheels and rollers, coupling halves, sprocket wheels, buffers. Information provided by Huntsman

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Huntsman-IROGRAN-A-98-E-4066-Polyester-Based-TPU-High-Performance-Grade.php](http://www.lookpolymers.com/polymer_Huntsman-IROGRAN-A-98-E-4066-Polyester-Based-TPU-High-Performance-Grade.php)

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in <sup>3</sup>	ASTM D792
Linear Mold Shrinkage	0.0070 cm/cm	0.0070 in/in	ASTM D995
Melt Index of Compound	15 g/10 min @Load 21.6 kg, Temperature 210 °C	15 g/10 min @Load 47.6 lb, Temperature 410 °F	cm <sup>3</sup> /10 min

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	97	97	ASTM D2240
Hardness, Shore D	59	59	ASTM D2240
Tensile Strength at Break	50.0 MPa	7250 psi	DIN 53504
Elongation at Break	530 %	530 %	DIN 53504
100% Modulus	0.0140 GPa	2.03 ksi	DIN 53504
300% Modulus	0.0250 GPa	3.63 ksi	DIN 53504
Rebound	30 %	30 %	Bayshore; ASTM D2632
Tear Strength	135 kN/m	770 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
	45 %	45 %	

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

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 Molding
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 Molding
	185 - 200 Â°C	365 - 392 Â°F	
Mold Temperature	20.0 - 70.0 Â°C	68.0 - 158 Â°F	Injection Molding

## Contact Songhan Plastic Technology Co.,Ltd.

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