

## Huntsman IROGRAN® PS 456-202 TPU-Polyester

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

### Material Notes:

Polyester-based grades with a broad processing window ideally suited for cast, flat die and blown film lines. Information provided by Alliance Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Huntsman-IROGRAN-PS-456-202-TPU-Polyester.php](http://www.lookpolymers.com/polymer_Huntsman-IROGRAN-PS-456-202-TPU-Polyester.php)

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in <sup>3</sup>	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	84	84	ASTM D2240
Hardness, Shore D	37	37	ASTM D2240
Tensile Strength at Break	19.5 MPa	2830 psi	ASTM D412
Elongation at Break	680 %	680 %	ASTM D412
50% Modulus	0.00193 GPa	0.280 ksi	ASTM D412
100% Modulus	0.00197 GPa	0.285 ksi	ASTM D412
300% Modulus	0.00455 GPa	0.660 ksi	ASTM D412
Rebound	42 %	42 %	Bayshore; ASTM D2632
Tear Strength	56.1 kN/m	320 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	37	37	ASTM D3389
Compression Set	58 %	58 %	ASTM D395
	@Temperature 22.8 °C, Time 79200 sec	@Temperature 73.0 °F, Time 22.0 hour	
Compression Set	102 %	102 %	ASTM D395
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	

Thermal Properties	Metric	English	Comments
Melting Point	71.0 - 88.0 °C	160 - 190 °F	TMA Melt Range
Vicat Softening Point	38.0 °C	100 °F	ASTM D1525

Thermal Properties

Metric

English

Comments

## Contact Songhan Plastic Technology Co.,Ltd.

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