

## Huntsman IROGRAN® PS455-203 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-PS455-203-TPU-Polyester.php](http://www.lookpolymers.com/polymer_Huntsman-IROGRAN-PS455-203-TPU-Polyester.php)

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in <sup>3</sup>	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	78	78	ASTM D2240
Hardness, Shore D	30	30	ASTM D2240
Tensile Strength at Break	21.5 MPa	3120 psi	ASTM D412
Elongation at Break	570 %	570 %	ASTM D412
50% Modulus	0.00110 GPa	0.160 ksi	ASTM D412
100% Modulus	0.00152 GPa	0.220 ksi	ASTM D412
300% Modulus	0.00614 GPa	0.890 ksi	ASTM D412
Rebound	50 %	50 %	Bayshore; ASTM D2632
Tear Strength	61.4 kN/m	350 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	36	36	ASTM D3389
Abrasion	134	134	mm <sup>3</sup> ; DIN 53516
Compression Set	35 %	35 %	
	@Temperature 22.8 °C, Time 79200 sec	@Temperature 73.0 °F, Time 22.0 hour	ASTM D395
	91 %	91 %	
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	ASTM D395

Thermal Properties	Metric	English	Comments
Melting Point	119 - 139 °C	246 - 282 °F	TMA Melt Range

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	-39.0 °C	-38.2 °F	Midpoint; ASTM E 1269

## Contact Songhan Plastic Technology Co.,Ltd.

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