

Huntsman IROGRAN® PS 440-200 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-440-200-TPU-Polyester.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	89	89	ASTM D2240
Hardness, Shore D	43	43	ASTM D2240
Tensile Strength at Break	49.4 MPa	7170 psi	ASTM D412
Elongation at Break	490 %	490 %	ASTM D412
50% Modulus	0.00386 GPa	0.560 ksi	ASTM D412
100% Modulus	0.00462 GPa	0.670 ksi	ASTM D412
300% Modulus	0.0152 GPa	2.21 ksi	ASTM D412
Rebound	36 %	36 %	Bayshore; ASTM D2632
Tear Strength	87.7 kN/m	500 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	18	18	ASTM D3389
Abrasion	28	28	mm ³ ; DIN 53516
Compression Set	30 %	30 %	
	@Temperature 22.8 °C, Time 79200 sec	@Temperature 73.0 °F, Time 22.0 hour	ASTM D395
	80 %	80 %	
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	ASTM D395

Thermal Properties	Metric	English	Comments
Melting Point	159 - 176 °C	318 - 349 °F	TMA Melt Range

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	-35.0 °C	-31.0 °F	Midpoint; ASTM E 1269

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