

Huntsman IROGRAN® PS 455-215 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-455-215-TPU-Polyester.php

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

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	78	78	ASTM D2240
Hardness, Shore D	31	31	ASTM D2240
Tensile Strength at Break	39.2 MPa	5690 psi	ASTM D412
Elongation at Break	610 %	610 %	ASTM D412
50% Modulus	0.000689 GPa	0.100 ksi	ASTM D412
100% Modulus	0.00124 GPa	0.180 ksi	ASTM D412
300% Modulus	0.00552 GPa	0.800 ksi	ASTM D412
Rebound	45 %	45 %	Bayshore; ASTM D2632
Tear Strength	57.8 kN/m	330 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	10	10	ASTM D3389
Abrasion	54	54	mm ³ ; DIN 53516
Compression Set	34 %	34 %	ASTM D395
	@Temperature 22.8 Â°C, Time 79200 sec	@Temperature 73.0 Â°F, Time 22.0 hour	
	82 %	82 %	ASTM D395
	@Temperature 70.0 Â°C, Time 79200 sec	@Temperature 158 Â°F, Time 22.0 hour	

Thermal Properties	Metric	English	Comments
Melting Point	129 - 142 Â°C	264 - 288 Â°F	TMA Melt Range

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	-32.0 °C	-25.6 °F	Midpoint; ASTM E 1269

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