

Huntsman IROGRAN® PS 370-202 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-370-202-TPU-Polyester.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	77	77	ASTM D2240
Hardness, Shore D	30	30	ASTM D2240
Tensile Strength at Break	40.8 MPa	5920 psi	ASTM D412
Elongation at Break	470 %	470 %	ASTM D412
50% Modulus	0.000552 GPa	0.0800 ksi	ASTM D412
100% Modulus	0.00145 GPa	0.210 ksi	ASTM D412
300% Modulus	0.00779 GPa	1.13 ksi	ASTM D412
Rebound	40 %	40 %	Bayshore; ASTM D2632
Tear Strength	54.3 kN/m	310 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	8.0	8.0	ASTM D3389
Abrasion	47	47	mm ³ ; DIN 53516
Compression Set	15 %	15 %	ASTM D395
	@Temperature 22.8 °C, Time 79200 sec	@Temperature 73.0 °F, Time 22.0 hour	
	63 %	63 %	ASTM D395
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	
Tensile Set	4.0 %	4.0 %	ASTM D412
	@Strain 200 %	@Strain 200 %	

Thermal Properties	Metric	English	Comments
Melting Point	122 - 144 Â°C	252 - 291 Â°F	TMA Melt Range
Vicat Softening Point	77.0 Â°C	171 Â°F	ASTM D1525
Glass Transition Temp, Tg	-19.0 Â°C	-2.20 Â°F	Midpoint; ASTM E 1269

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