

Huntsman IROGRAN® D 64 P 4777 TPU-Polyester

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

Material Notes:

Polyether-based grades for film and sheet applications that require excellent resistance to hydrolysis and microbial attack. Information provided by Alliance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Huntsman-IROGRAN-D-64-P-4777-TPU-Polyester.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	95	95	ASTM D2240
Hardness, Shore D	65	65	ASTM D2240
Tensile Strength at Break	42.1 MPa	6110 psi	ASTM D412
Elongation at Break	380 %	380 %	ASTM D412
50% Modulus	0.0185 GPa	2.68 ksi	ASTM D412
100% Modulus	0.0212 GPa	3.07 ksi	ASTM D412
300% Modulus	0.0339 GPa	4.91 ksi	ASTM D412
Rebound	50 %	50 %	Bayshore; ASTM D2632
Tear Strength	167 kN/m	950 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	77	77	ASTM D3389
Abrasion	48	48	mm ³ ; DIN 53516
Compression Set	57 %	57 %	
	@Temperature 22.8 Â°C, Time 79200 sec	@Temperature 73.0 Â°F, Time 22.0 hour	ASTM D395
	92 %	92 %	
	@Temperature 70.0 Â°C, Time 79200 sec	@Temperature 158 Â°F, Time 22.0 hour	ASTM D395

Thermal Properties	Metric	English	Comments
Melting Point	188 - 204 Â°C	370 - 399 Â°F	TMA Melt Range

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	-41.0 °C	-41.8 °F	Midpoint; ASTM E 1269

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