

Huntsman IROGRAN® A 80 H 4826 TPU-Polyester

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

Material Notes:

Introduction: IROGRAN A 80 H 4826 is a thermoplastic polyester-polyurethane for injection molding applications. Additional characteristics of this product are excellent mechanical properties and high tear strength. Performance Features: high wear resistance medium crystallinity low hardness increase of productivity easy coloring Applications: For the production of general injection molding, screens, wheels and rollers, buffers, shoe heel lifts Information provided by Alliance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Huntsman-IROGRAN-A-80-H-4826-TPU-Polyester.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	Injection molded parts; ISO 2781
Linear Mold Shrinkage	0.0085 cm/cm	0.0085 in/in	
Melt Index of Compound	20 g/10 min @Load 21.6 kg, Temperature 190 °C	20 g/10 min @Load 47.6 lb, Temperature 374 °F	MVR, [cm ³ /10 min]

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	81	81	Injection molded parts; ISO 868
Hardness, Shore D	30	30	Injection molded parts; ISO 868
Tensile Strength at Break	39.3 MPa	5700 psi	Injection molded parts; ISO 37
Elongation at Break	600 %	600 %	Injection molded parts; ISO 37
100% Modulus	0.00500 GPa	0.725 ksi	Injection molded parts; ISO 37
300% Modulus	0.0101 GPa	1.46 ksi	Injection molded parts; ISO 37
Rebound	44 %	44 %	Bayshore
Tear Strength	96.4 kN/m	550 pli	Injection molded parts; ISO 34B
Abrasion	25	25	mm ³ , Injection molded; ISO 4649
Compression Set	20 % @Temperature 22.8 °C, Time 252000 sec	20 % @Temperature 73.0 °F, Time 70.0 hour	Injection molded; ISO 815
	35 % @Temperature 70.0 °C,	35 % @Temperature 158 °F,	Injection molded; ISO 815

Mechanical Properties	Time 86400 sec Metric	Time 24.0 hour English	Comments
Thermal Properties	Metric	English	Comments
Melting Point	165 - 173 Â°C	329 - 343 Â°F	0.025" extruded film,

Processing Properties	Metric	English	Comments
Nozzle Temperature	195 Â°C	383 Â°F	
Zone 1	190 Â°C	374 Â°F	
Zone 2	205 Â°C	401 Â°F	
Zone 3	195 Â°C	383 Â°F	
Drying Temperature	85.0 Â°C	185 Â°F	
Dry Time	2.00 hour	2.00 hour	
Dew Point	-30.0 Â°C	-22.0 Â°F	

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