

Huntsman IROGRAN® A 92 E 4246 Polyester-Based TPU-High Performance Grade

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyurethane TPE , Polyurethane, TP , Thermoplastic Polyurethane, Elastomer, Polyester Grade

Material Notes:

Introduction: IROGRAN A 92 E 4246 is a thermoplastic polyester- polyurethane for injection molding applications. Additional characteristics of the product are short cycle times, good melt flow and easy demolding. **Performance Features:** Easy demolding Short cycle times High demolding stability High stability of melt High wear resistance **Applications:** For the production of buffers, seals, sprocket wheels, bearing shells. Information provided by Huntsman

Order this product through the following link:

http://www.lookpolymers.com/polymer_Huntsman-IROGRAN-A-92-E-4246-Polyester-Based-TPU-High-Performance-Grade.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0090 cm/cm	0.0090 in/in	ASTM D995
Melt Index of Compound	48 g/10 min @Load 21.6 kg, Temperature 210 Â°C	48 g/10 min @Load 47.6 lb, Temperature 410 Â°F	cm³/10 min

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	91	91	ASTM D2240
Hardness, Shore D	42	42	ASTM D2240
Tensile Strength at Break	50.0 MPa	7250 psi	DIN 53504
Elongation at Break	650 %	650 %	ASTM D412
100% Modulus	0.00720 GPa	1.04 ksi	DIN 53504
300% Modulus	0.0150 GPa	2.18 ksi	DIN 53504
Rebound	32 %	32 %	Bayshore; ASTM D2632
Tear Strength	89.4 kN/m	510 pli	ASTM D624
Abrasion	25	25	[mm³]; ISO 4649
Compression Set	25 % @Temperature 23.0 Â°C, Time 252000 sec	25 % @Temperature 73.4 Â°F, Time 70.0 hour	ASTM D395
	40 %	40 %	

Mechanical Properties	Metric	English	Comments
	@Temperature 70.0 Â°C, Time 86400 sec	@ Temperature 158 Â°F, Time 24.0 hour	ASTM D395

Processing Properties	Metric	English	Comments
Feed Temperature	25.0 - 40.0 Â°C	77.0 - 104 Â°F	Extrusion
Front Barrel Temperature	165 - 190 Â°C	329 - 374 Â°F	Extrusion
Nozzle Temperature	170 - 200 Â°C	338 - 392 Â°F	Extrusion
	180 - 200 Â°C	356 - 392 Â°F	Injection
Adapter Temperature	175 - 195 Â°C	347 - 383 Â°F	Extrusion
Die Temperature	175 - 200 Â°C	347 - 392 Â°F	Extrusion
Melt Temperature	175 - 190 Â°C	347 - 374 Â°F	
	170 - 195 Â°C	338 - 383 Â°F	Injection
Mold Temperature	20.0 - 70.0 Â°C	68.0 - 158 Â°F	Injection

Descriptive Properties	Value	Comments
Heating Zone	175-195Â°C	Injection

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