DuPont Performance Polymers Hytrel® HTR6108 TPC-ET (Unverified Data**)

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

Material Notes:

Hytrel® HTR6108 is a medium modulus grade, specially designed for good flexibility and low permeability to hydrocarbon fuels and oils. It has nominal hardness of 61D and can be processed by various thermoplastic processing techniques.Information provided by DuPont Performance Polymers

Order this product through the following link:
http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Hytrel-HTR6108-TPC-ET-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.24 g/cc	1.24 g/cc	ASTM D792
Density	1.25 g/cc	0.0452 lb/in³	ISO 1183
Water Absorption	0.20 % @Temperature 23.0 °C	0.20 % @Temperature 73.4 °F	Immersion 24h; ASTM D570
	0.20 % @Temperature 23.0 °C	0.20 % @Temperature 73.4 °F	Immersion 24h; ISO 62
Melt Flow	5.2 g/10 min @Load 2.16 kg, Temperature 190 °C	5.2 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238
	5.2 g/10 min @Load 2.16 kg, Temperature 190 °C	5.2 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	<= 60	<= 60	ASTM D2240
	<= 61	<= 61	ISO 868
	58 @Time 15.0 sec	58 @Time 0.00417 hour	ISO 868
Tensile Strength at Break	31.0 MPa @Temperature 23.0 °C	4500 psi @Temperature 73.4 °F	ISO 527 (1BA bar)
	38.6 MPa @Temperature 23.0 °C	5600 psi @Temperature 73.4 °F	ASTM D638
Tensile Stress	7.60 MPa @Strain 5.00 %,	1100 psi @Strain 5.00 %,	ASTM D638

Mechanical Properties	Metric (Temperature 23.0 °C)	English (Temperature 73.4 °F)	Comments
	9.50 MPa @Strain 10.0 %, Temperature 23.0 °C	1380 psi @Strain 10.0 %, Temperature 73.4 °F	ISO 527 (1BA bar)
	9.60 MPa @Strain 10.0 %, Temperature 23.0 °C	1390 psi @Strain 10.0 %, Temperature 73.4 °F	ASTM D638
Elongation at Break	250 % @Temperature 23.0 °C	250 % @Temperature 73.4 °F	ISO 527 (1BA bar)
	400 % @Temperature 23.0 °C	400 % @Temperature 73.4 °F	ASTM D638
Tensile Modulus	0.165 GPa @Temperature 23.0 °C	23.9 ksi @Temperature 73.4 °F	ISO 527
Flexural Modulus	0.0600 GPa @Temperature 100 °C	8.70 ksi @Temperature 212 °F	ASTM D790
	0.0600 GPa @Temperature 100 °C	8.70 ksi @Temperature 212 °F	ISO 178
	0.190 GPa @Temperature 23.0 °C	27.6 ksi @Temperature 73.4 °F	ISO 178
	0.193 GPa @Temperature 23.0 °C	28.0 ksi @Temperature 73.4 °F	ASTM D790
	2.01 GPa @Temperature -40.0 °C	292 ksi @Temperature -40.0 °F	ASTM D790
	2.01 GPa @Temperature -40.0 °C	292 ksi @Temperature -40.0 °F	ISO 178
Izod Impact, Notched	0.200 J/cm @Temperature -40.0 °C	0.375 ft-lb/in @Temperature -40.0 °F	ASTM D256
	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	162 °C	324 °F	10°C/min; ISO 11357-1/-3

Thermal Properties	Metric	English	Comments
	168 °C	334 °F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	47.0 °C	117 °F	ISO 75-1/-2
	50.0 °C	122 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	42.0 °C	108 °F	ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	195 °C	383 °F	Optimum; Extrusion
	200 °C	392 °F	Optimum; Injection Molding
Mold Temperature	45.0 °C	113 °F	optimum; Injection Molding
	45.0 - 55.0 °C	113 - 131 °F	Injection Molding
Drying Temperature	100 °C	212 °F	Extrusion
	100 °C	212 °F	Injection Molding
Dry Time	2.00 - 3.00 hour	2.00 - 3.00 hour	Extrusion
	2.00 - 3.00 hour	2.00 - 3.00 hour	Injection Molding
Moisture Content	<= 0.080 %	<= 0.080 %	Extrusion
	<= 0.080 %	<= 0.080 %	Injection Molding

Descriptive Properties	Value	Comments
Additive	Antioxidant	
Appearance	Beige, Light	
Drying Recommended	Yes	
Extrudable - Cast Film	Yes	
Extrudable - Coating	Yes	
Extrudable - Filament	Yes	
Extrudable - Hose	Yes	
Extrudable - Sheet	Yes	
Extrudable - Tubing	Yes	
Extrudable - Wire and Cable	Yes	
Features	Barrier Resin	

Descriptive Properties	Value	Comments
	Chemical Resistance, Good	
	Copolymer, Block	
	Hardness, Medium	
	Liquid Permeability, Low	
Generic	TPC-ET	
Heat Stabilized	Yes	
Material Status	Current	
Melt Castable	Yes	
Part Marking Code	>TPC-ET<	ISO 11469
Polymer Family	TPC-ET	
Polymer Type	TPC-ET	
Processing Method	Extrusion	
	Injection Molding	
Product Category	Extrusion Resins	
	Transparent/Translucent Resins	
Resin Identification	TPC-ET	ISO 1043
RoHS Compliance	Contact Manufacturer	
Uses	Cable Jacketing	
	Coating Applications	
	Hose	

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