

DuPont Performance Polymers Hytrel® HTR8068 Polyester Elastomer TPC-ET (Unverified Data**)

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

Material Notes:

44 Shore D Flame Retardant Polyester Elastomer Developed for Extrusion and Injection Molding Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Hytrel-HTR8068-Polyester-Elastomer-TPC-ET-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	
	1.43 g/cc	0.0517 lb/in ³	ISO 1183
Water Absorption at Saturation	1.9 %	1.9 %	Immersion 24h; ASTM D570
Linear Mold Shrinkage, Flow	0.011 cm/cm	0.011 in/in	ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	ISO 294-4 2577
Melt Flow	3.6 g/10 min	3.6 g/10 min	cm ³ /10min; ISO 1133
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	4.0 g/10 min	4.0 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	38	38	15s; ISO 868
	<= 44	<= 44	ISO 868
Tensile Strength at Break	13.0 MPa	1890 psi	ISO 527-1/-2
Tensile Stress	5.90 MPa	856 psi	ISO 527-1/-2
	@Strain 10.0 %	@Strain 10.0 %	
	7.30 MPa	1060 psi	ISO 527-1/-2
	@Strain 50.0 %	@Strain 50.0 %	
Elongation at Break	>= 300 %	>= 300 %	ISO 527-1/-2
	340 %	340 %	Nominal; ISO 527-1/-2

Tensile Modulus Mechanical Properties	0.140 GPa Metric	20.3 ksi English	ISO 527-1/-2 Comments
Flexural Modulus	0.155 GPa	22.5 ksi	ISO 178
Charpy Impact, Notched	4.00 J/cm ²	19.0 ft-lb/in ²	ISO 179/1eA
	0.500 J/cm ²	2.38 ft-lb/in ²	ISO 179/1eA
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	0.700 J/cm ²	3.33 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Tear Strength	70.0 kN/m	399 pli	parallel; ISO 34-1
	70.0 kN/m	399 pli	normal; ISO 34-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	150 µm/m-°C	83.3 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	170 µm/m-°C	94.4 µin/in-°F	ISO 11359-1/-2
Melting Point	170 °C	338 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	46.0 °C	115 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	41.0 °C	106 °F	ISO 75-1/-2
Brittleness Temperature	-48.0 °C	-54.4 °F	ISO 974
Flammability, UL94	V-0	V-0	IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Oxygen Index	26 %	26 %	ISO 4589-1/-2

Descriptive Properties	Value	Comments
Delivery Form	Pellets	
Eff. thermal diffusivity	5.44E-08 m ² /s	
Part Marking Code	>TPC-ET-FR(17)<	ISO 11469
Processing	Casting	
	Coatable	
	Film Extrusion	
	Injection Moulding	

Descriptive Properties	Other Extrusion Value	Comments
	Profile Extrusion	
	Sheet Extrusion	
	Thermoforming	
Regional Availability	Asia Pacific	
	Europe	
	Global	
	Near East/Africa	
	North America	
	South and Central America	
Resin Identification	TPC-ET-FR(17)	ISO 1043
Special Characteristics	Light stabilised or stable to light	
UL recognition	UL	

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