

DuPont Performance Polymers Hytrel® HTR8636 NC010 TPC-ET (Unverified Data**)

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

Material Notes:

Hytrel® HTR8636 NC010 is a medium modulus Hytrel® grade with nominal durometer hardness of 40D. It contains non_discoloring stabilizer. It is specially suitable for extrusion processing. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Hytrel-HTR8636-NC010-TPC-ET-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.023 cm/cm @Thickness 2.00 mm	0.023 in/in @Thickness 0.0787 in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.016 cm/cm @Thickness 2.00 mm	0.016 in/in @Thickness 0.0787 in	ISO 294-4
Melt Flow	6.5 g/10 min @Load 10.0 kg, Temperature 230 °C	6.5 g/10 min @Load 22.0 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	<= 38	<= 38	ISO 868
	35 @Time 15.0 sec	35 @Time 0.00417 hour	ISO 868
Tensile Strength at Break	22.0 MPa @Temperature 23.0 °C	3190 psi @Temperature 73.4 °F	ISO 527 (1BA bar)
Tensile Stress	5.40 MPa @Temperature 100 °C	783 psi @Temperature 212 °F	ISO 527 (1BA bar)
	36.4 MPa @Temperature -40.0 °C	5280 psi @Temperature -40.0 °F	ISO 527 (1BA bar)
	1.30 MPa @Strain 5.00 %, Temperature 100 °C	189 psi @Strain 5.00 %, Temperature 212 °F	ISO 527 (1BA bar)
	1.80 MPa @Strain 10.0 %	261 psi @Strain 10.0 %	ISO 527 (1BA bar)

Mechanical Properties	Temperature 100 °C Metric	Temperature 212 °F English	Comments
	2.80 MPa	406 psi	
	@Strain 50.0 %, Temperature 100 °C	@Strain 50.0 %, Temperature 212 °F	ISO 527 (1BA bar)
	3.30 MPa	479 psi	
	@Strain 100 %, Temperature 100 °C	@Strain 100 %, Temperature 212 °F	ISO 527 (1BA bar)
	3.40 MPa	493 psi	
	@Strain 5.00 %, Temperature 23.0 °C	@Strain 5.00 %, Temperature 73.4 °F	ISO 527 (1BA bar)
	4.50 MPa	653 psi	
	@Strain 200 %, Temperature 100 °C	@Strain 200 %, Temperature 212 °F	ISO 527 (1BA bar)
	5.90 MPa	856 psi	
	@Strain 10.0 %, Temperature 23.0 °C	@Strain 10.0 %, Temperature 73.4 °F	ISO 527 (1BA bar)
	8.20 MPa	1190 psi	
	@Strain 50.0 %, Temperature 23.0 °C	@Strain 50.0 %, Temperature 73.4 °F	ISO 527 (1BA bar)
	9.76 MPa	1420 psi	
	@Strain 5.00 %, Temperature -40.0 °C	@Strain 5.00 %, Temperature -40.0 °F	ISO 527 (1BA bar)
	10.0 MPa	1450 psi	
	@Strain 100 %, Temperature 23.0 °C	@Strain 100 %, Temperature 73.4 °F	ISO 527 (1BA bar)
	13.7 MPa	1990 psi	
	@Strain 200 %, Temperature 23.0 °C	@Strain 200 %, Temperature 73.4 °F	ISO 527 (1BA bar)
	14.12 MPa	2048 psi	
	@Strain 10.0 %, Temperature -40.0 °C	@Strain 10.0 %, Temperature -40.0 °F	ISO 527 (1BA bar)
	17.8 MPa	2580 psi	
	@Strain 50.0 %, Temperature -40.0 °C	@Strain 50.0 %, Temperature -40.0 °F	ISO 527 (1BA bar)
	17.9 MPa	2600 psi	
	@Strain 300 %, Temperature 23.0 °C	@Strain 300 %, Temperature 73.4 °F	ISO 527 (1BA bar)
	21.1 MPa	3060 psi	

Mechanical Properties	Metric	English	Comments
	@Strain 100 %, Temperature -40.0 °C	@Strain 100 %, Temperature -40.0 °F	ISO 527 (1BA bar)
	27.5 MPa	3990 psi	ISO 527 (1BA bar)
	@Strain 200 %, Temperature -40.0 °C	@Strain 200 %, Temperature -40.0 °F	ISO 527 (1BA bar)
	34.3 MPa	4970 psi	ISO 527 (1BA bar)
	@Strain 300 %, Temperature -40.0 °C	@Strain 300 %, Temperature -40.0 °F	ISO 527 (1BA bar)
Elongation at Break	>= 50 %	>= 50 %	nominal; ISO 527 (1BA bar)
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	192 %	192 %	nominal; ISO 527 (1BA bar)
	@Temperature 100 °C	@Temperature 212 °F	
	263 %	263 %	ISO 527 (1BA bar)
	@Temperature 100 °C	@Temperature 212 °F	
	277 %	277 %	nominal; ISO 527 (1BA bar)
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	337 %	337 %	ISO 527 (1BA bar)
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	348 %	348 %	nominal; ISO 527 (1BA bar)
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	394 %	394 %	ISO 527 (1BA bar)
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Modulus	0.0340 GPa	4.93 ksi	ISO 178
	@Temperature 100 °C	@Temperature 212 °F	
	0.0770 GPa	11.2 ksi	ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.357 GPa	51.8 ksi	ISO 178
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Thermal Properties	Metric	English	Comments
Melting Point	207 °C	405 °F	10°C/min; ISO 11357-1/-3

Processing Properties	Metric	English	Comments
Melt Temperature	225 °C	437 °F	Optimum; Extrusion
	230 °C	446 °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	<= 0.050 %	<= 0.050 %	Extrusion
	<= 0.080 %	<= 0.080 %	Injection Molding

Descriptive Properties	Value	Comments
Generic	TPC-ET	
Part Marking Code	>TPC-ET<	ISO 11469
Product Category	Extrusion Resins	
Resin Identification	TPC-ET	ISO 1043

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