

DuPont Performance Polymers Hytrel® HTR8441 BK316 TPC-ET (Unverified Data**)

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

Material Notes:

Hytrel® HTR8441 is a 55 nom. Shore D thermoplastic polyester elastomer for blow molding. It provides good mechanical properties at high temperature. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Hytrel-HTR8441-BK316-TPC-ET-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in³	ISO 1183
Linear Mold Shrinkage, Flow	0.020 cm/cm @Thickness 2.00 mm	0.020 in/in @Thickness 0.0787 in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.020 cm/cm @Thickness 2.00 mm	0.020 in/in @Thickness 0.0787 in	ISO 294-4
Melt Flow	10 g/10 min @Load 10.0 kg, Temperature 240 °C	10 g/10 min @Load 22.0 lb, Temperature 464 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	53 @Temperature 23.0 °C, Time 15.0 sec	53 @Temperature 73.4 °F, Time 0.00417 hour	ISO 868
Tensile Strength at Break	34.0 MPa @Temperature 23.0 °C	4930 psi @Temperature 73.4 °F	ISO 527 (1BA bar)
Tensile Stress	7.50 MPa @Strain 5.00 %, Temperature 23.0 °C	1090 psi @Strain 5.00 %, Temperature 73.4 °F	ISO 527 (1BA bar)
	11.6 MPa @Strain 10.0 %, Temperature 23.0 °C	1680 psi @Strain 10.0 %, Temperature 73.4 °F	ISO 527 (1BA bar)
	18.4 MPa @Strain 50.0 %, Temperature 23.0 °C	2670 psi @Strain 50.0 %, Temperature 73.4 °F	ISO 527 (1BA bar)
Elongation at Break	>= 50 % @Temperature 23.0 °C	>= 50 % @Temperature 73.4 °F	nominal; ISO 527 (1BA bar)

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	nominal; ISO 527 (1BA bar)
	400 %	400 %	ISO 527 (1BA bar)
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Modulus	0.190 GPa	27.6 ksi	ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	3.90 J/cm²	18.6 ft-lb/in²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	213 °C	415 °F	10°C/min; ISO 11357-1/-3
Brittleness Temperature	-62.0 °C	-79.6 °F	ISO 974

Processing Properties	Metric	English	Comments
Melt Temperature	235 °C	455 °F	Optimum; Blow Molding
	230 - 240 °C	446 - 464 °F	Blow Molding
Drying Temperature	110 °C	230 °F	Blow Molding
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	Blow Molding
Moisture Content	<= 0.020 %	<= 0.020 %	Blow Molding

Descriptive Properties	Value	Comments
Appearance	Black Color	
Forms	Pellets	
Generic	TPC	
Material Status	Preliminary Data	
Part Marking Code	>TPC-ET<	ISO 11469
Processing Method	Blow Molding	
Product Category	Blow Moldable Resins	
Region Available - Global	Yes	
Resin Identification	TPC-ET	ISO 1043

RoHS Compliance Descriptive Properties	Contact Manufacturer Value	Comments
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