

## DuPont Performance Polymers Hytrel® HTR8730 BK320 TPC-ET (Unverified Data\*\*)

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

### Material Notes:

Hytrel® HTR8730 BK320 is a high viscosity thermoplastic polyester elastomer designed for blow molding. It has excellent mechanical properties at elevated temperatures and very good resistance to most automotive fluids. Information provided by DuPont Performance Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Performance-Polymers-Hytrel-HTR8730-BK320-TPC-ET-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Hytrel-HTR8730-BK320-TPC-ET-nbspUnverified-Data.php)

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.30 % @Temperature 23.0 °C	0.30 % @Temperature 73.4 °F	Immersion 24h; ISO 62, Similar to
Melt Flow	6.0 g/10 min @Load 10.0 kg, Temperature 230 °C	6.0 g/10 min @Load 22.0 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60 @Time 15.0 sec	60 @Time 0.00417 hour	ISO 868
Tensile Strength at Break	41.0 MPa @Temperature 23.0 °C	5950 psi @Temperature 73.4 °F	ISO 527 (1BA bar)
Tensile Stress	10.0 MPa @Strain 5.00 %, Temperature 23.0 °C	1450 psi @Strain 5.00 %, Temperature 73.4 °F	ISO 527 (1BA bar)
	15.0 MPa @Strain 10.0 %, Temperature 23.0 °C	2180 psi @Strain 10.0 %, Temperature 73.4 °F	ISO 527 (1BA bar)
Elongation at Break	340 % @Temperature 23.0 °C	340 % @Temperature 73.4 °F	ISO 527 (1BA bar)
Tensile Modulus	0.273 GPa @Temperature 23.0 °C	39.6 ksi @Temperature 73.4 °F	ISO 527
Charpy Impact, Notched	1.00 J/cm <sup>2</sup> @Temperature -40.0 °C	4.76 ft-lb/in <sup>2</sup> @Temperature -40.0 °F	ISO 179/1eA

Mechanical Properties	Metric <small>cm<sup>2</sup></small>	English <small>lb/in<sup>2</sup></small>	Comments
	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 1179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	212 °C	414 °F	10°C/min; ISO 11357-1/-3

Processing Properties	Metric	English	Comments
Melt Temperature	230 °C	446 °F	Optimum; Blow Molding
	230 °C	446 °F	Optimum; Extrusion
	225 - 235 °C	437 - 455 °F	Blow Molding
	225 - 235 °C	437 - 455 °F	Extrusion
Drying Temperature	100 °C	212 °F	Blow Molding
	100 °C	212 °F	Extrusion
Dry Time	2.00 - 3.00 hour	2.00 - 3.00 hour	Blow Molding
	2.00 - 3.00 hour	2.00 - 3.00 hour	Extrusion
Moisture Content	<= 0.030 %	<= 0.030 %	Blow Molding
	<= 0.050 %	<= 0.050 %	Extrusion

Descriptive Properties	Value	Comments
Forms	Pellets	
Generic	TPC-ET	
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	Contact Manufacturer	

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