

DuPont Performance Polymers Hytrel® HTR8685 BK022A TPC-ET (Unverified Data**)

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

Material Notes:

Hytrel® HTR8685 BK022A is designed for blow molding or processing techniques requiring high melt viscosity. It has nominal hardness of 44D, is pigmented black with fine particle size carbon black, and contains a general purpose stabilizer. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Hytrel-HTR8685-BK022A-TPC-ET-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in³	ISO 1183
Linear Mold Shrinkage, Flow	0.017 cm/cm @Thickness 2.00 mm	0.017 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

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	<= 44 @Temperature 23.0 °C	<= 44 @Temperature 73.4 °F	ISO 868
	41 @Time 15.0 sec	41 @Time 0.00417 hour	ISO 868
Tensile Strength at Break	30.0 MPa @Temperature 23.0 °C	4350 psi @Temperature 73.4 °F	ISO 527 (1BA bar)
Tensile Stress	8.40 MPa @Strain 10.0 %, Temperature 23.0 °C	1220 psi @Strain 10.0 %, Temperature 73.4 °F	ISO 527 (1BA bar)
	14.0 MPa @Strain 50.0 %, Temperature 23.0 °C	2030 psi @Strain 50.0 %, Temperature 73.4 °F	ISO 527 (1BA bar)
Elongation at Break	320 % @Temperature 23.0 °C	320 % @Temperature 73.4 °F	nominal; ISO 527 (1BA bar)
	350 % @Temperature 23.0 °C	350 % @Temperature 73.4 °F	ISO 527 (1BA bar)

Mechanical Properties	0.100 GPa Metric	14.5 ksi English	Comments
Tensile Modulus	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 527
Flexural Modulus	0.100 GPa	14.5 ksi	ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	NB	NB	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	500 µm/m-°C	278 µin/in-°F	ISO 11359-1/-2
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
CTE, linear, Transverse to Flow	200 µm/m-°C	111 µin/in-°F	ISO 11359-1/-2
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
Melting Point	206 °C	403 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	62.0 °C	144 °F	ISO 75-1/-2

Processing Properties	Metric	English	Comments
Melt Temperature	240 °C	464 °F	Optimum; Injection Molding
Mold Temperature	45.0 °C	113 °F	optimum; Injection Molding
	40.0 - 50.0 °C	104 - 122 °F	Injection Molding
Drying Temperature	110 °C	230 °F	Blow Molding
	110 °C	230 °F	Injection Molding
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	Blow Molding
	3.00 - 4.00 hour	3.00 - 4.00 hour	Injection Molding
Moisture Content	<= 0.020 %	<= 0.020 %	Blow Molding
	<= 0.020 %	<= 0.020 %	Injection Molding

Descriptive Properties	Value	Comments
Appearance	Black Color	
Forms	Pellets	
Generic	TPC-ET	

Descriptive Properties	Value	Comments
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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