

DuPont Performance Polymers Hytrel® HTR8223 BK320 TPC-ET (Unverified Data**)

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

Material Notes:

Hytrel® HTR8223 BK320 is designed for blow molding or processing techniques requiring high melt viscosity. It has nominal hardness of 42D, 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-HTR8223-BK320-TPC-ET-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ISO 1183
Water Absorption	0.60 %	0.60 %	Immersion 24h; ISO 62
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Melt Flow	0.60 g/10 min	0.60 g/10 min	ASTM D570
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	
Melt Flow	2.3 g/10 min	2.3 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 230 °C	@Load 11.0 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	<= 42	<= 42	ISO 868
	<= 45	<= 45	ASTM D2240
	38	38	ISO 868
Tensile Strength at Break	27.0 MPa	3920 psi	ISO 527 (1BA bar)
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Stress	3.50 MPa	508 psi	ISO 527 (1BA bar)
	@Strain 5.00 %, Temperature 23.0 °C	@Strain 5.00 %, Temperature 73.4 °F	
	5.50 MPa	798 psi	

Mechanical Properties	Metric	English	ISO 527 (1BA bar) Comments
	@Strain 10.0 %, Temperature 23.0 °C	@Strain 10.0 %, Temperature 73.4 °F	
	6.80 MPa	986 psi	
	@Strain 50.0 %, Temperature 23.0 °C	@Strain 50.0 %, Temperature 73.4 °F	ISO 527 (1BA bar)
Elongation at Break	>= 300 %	>= 300 %	
	@Temperature 23.0 °C	@Temperature 73.4 °F	50mm/min; ISO 527 (1BA bar)
	450 %	450 %	
	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 527 (1BA bar)
Tensile Modulus	0.0740 GPa	10.7 ksi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 527
Flexural Modulus	0.0440 GPa	6.38 ksi	
	@Temperature 100 °C	@Temperature 212 °F	ISO 178
	0.0790 GPa	11.5 ksi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 178
	0.210 GPa	30.5 ksi	
	@Temperature -40.0 °C	@Temperature -40.0 °F	ISO 178
Izod Impact, Notched (ISO)	NB	NB	
	@Temperature -50.0 °C	@Temperature -58.0 °F	ISO 180/1A
	NB	NB	
	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 180/1A
Charpy Impact, Notched	NB	NB	
	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	195 °C	383 °F	10°C/min; ISO 11357-1/-3
Brittleness Temperature	-100 °C	-148 °F	ISO 974

Processing Properties	Metric	English	Comments
Melt Temperature	225 °C	437 °F	Optimum; Injection Molding
Mold Temperature	45.0 °C	113 °F	optimum; Injection Molding
	40.0 - 50.0 °C	104 - 122 °F	Injection Molding

Processing Properties	110 °C Metric	230 °F English	Blow Molding Comments
	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	
Extrudable - Blown Film	Yes	
Extrudable - Cast Film	Yes	
Extrudable - Coating	Yes	
Extrudable - Filament	Yes	
Extrudable - Hose	Yes	
Extrudable - Sheet	Yes	
Extrudable - Tubing	Yes	
Extrudable - Wire and Cable	Yes	
Extrusion Blow Moldable	Yes	
Forms	Pellets	
Generic	TPC-ET	
Heat Stabilized	Yes	
Material Status	Preliminary Data	
Melt Castable	Yes	
Part Marking Code	>TPC-ET<	ISO 11469
Polymer Family	TPC-ET	
Polymer Type	TPC-ET	
Processing Method	Blow Molding	
Product Category	Blow Moldable Resins	

Region Available - Global Descriptive Properties	Yes Value	Comments
Resin Identification	TPC-ET	ISO 1043
RoHS Compliance	Contact Manufacturer	

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