

DuPont Performance Polymers Hytrel® HTR8341G BK320 Polyester Elastomer TPC-ET (Unverified Data**)

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

Material Notes:

40 Shore D Slightly Lubricated High Viscosity Polyester Elastomer with Superior Fatigue Resistance Developed for Blow Molding

Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Hytrel-HTR8341G-BK320-Polyester-Elastomer-TPC-ET-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ISO 1183
Water Absorption	0.50 % @Thickness 2.00 mm	0.50 % @Thickness 0.0787 in	Sim. to ISO 62
Moisture Absorption	0.200 % @Thickness 2.00 mm	0.200 % @Thickness 0.0787 in	Sim. to ISO 62
Melt Flow	0.90 g/10 min @Load 2.16 kg, Temperature 230 °C	0.90 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133
	1.0 g/10 min @Load 2.16 kg, Temperature 230 °C	1.0 g/10 min @Load 4.76 lb, Temperature 446 °F	cm ³ /10min; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	37	37	15s; ISO 868
	<= 40	<= 40	ISO 868
Tensile Strength at Break	29.0 MPa	4210 psi	ISO 527-1/-2
Tensile Stress	6.70 MPa @Strain 10.0 %	972 psi @Strain 10.0 %	ISO 527-1/-2
	11.9 MPa @Strain 50.0 %	1730 psi @Strain 50.0 %	ISO 527-1/-2
Elongation at Break	>= 300 %	>= 300 %	ISO 527-1/-2
	390 %	390 %	Nominal; ISO 527-1/-2
Tensile Modulus	0.0800 GPa	11.6 ksi	ISO 527-1/-2

Mechanical Properties	Metric GPa	English	Comments
Charpy Impact, Notched	NB	NB	ISO 179/1eA
	NB @Temperature -40.0 °C	NB @Temperature -40.0 °F	partial break might occur; ISO 179/1eA
Tear Strength	110 kN/m	628 pli	parallel; ISO 34-1
	120 kN/m	685 pli	normal; ISO 34-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	179 µm/m-°C	99.4 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	168 µm/m-°C	93.3 µin/in-°F	ISO 11359-1/-2
Melting Point	208 °C	406 °F	10°C/min; ISO 11357-1/-3

Descriptive Properties	Value	Comments
Delivery Form	Pellets	
Part Marking Code	>TPC-ET<	ISO 11469
Processing	Blow Moulding	
	Casting	
	Coatable	
	Injection Moulding	
	Other Extrusion	
	Profile Extrusion	
	Sheet Extrusion	
Regional Availability	Thermoforming	
	Asia Pacific	
	Europe	
	Global	
	Near East/Africa	
	North America	
	South and Central America	

Basic Identification Descriptive Properties	TPC-FT Value	ISO 1043 Comments
Special Characteristics	Heat stabilised or stable to heat	

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