

Hytrel® HTR8341C BK320

THERMOPLASTIC POLYESTER ELASTOMER

DuPont Performance Polymers

Message:

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

General Information			
Additive	Heat Stabilizer		
	UV Stabilizer		
Features	Heat Stabilized		
Uses	Blow Molding Applications		
	Film		
	Profiles		
	Sheet		
Forms	Pellets		
Processing Method	Blow Molding		
	Casting		
	Coating		
	Extrusion		
	Film Extrusion		
	Injection Molding		
	Profile Extrusion		
	Sheet Extrusion		
	Thermoforming		
Multi-Point Data	Isothermal Stress vs. Strain (TPE) (ISO 11403-1)		
	Tensile Modulus vs. Temperature (ISO 11403-1)		
	Tensile Modulus vs. Temperature, Dynamic (ISO 11403-1)		
Part Marking Code (ISO 11469)	>TPC-ET<		
Resin ID (ISO 1043)	TPC-ET		
Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.90	g/10 min	ISO 1133
Water Absorption			ISO 62
23°C, 24 hr, 2.00 mm	0.50	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	0.20	%	

Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	40		
Shore D, 15 sec	37		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	80.0	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Break	28.0	MPa	
10% Strain	7.00	MPa	
50% Strain	12.0	MPa	
100% Strain	13.0	MPa	
300% Strain	23.0	MPa	
Tensile Strain (Break)	> 300	%	ISO 527-2
Nominal Tensile Strain at Break	350	%	ISO 527-2
Flexural Modulus	80.0	MPa	ISO 178
Elastomers	Nominal Value	Unit	Test Method
Tear Strength			ISO 34-1
Across Flow	120	kN/m	
Flow	110	kN/m	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C, Partial Break	No Break		
23°C	No Break		
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	No Break		
23°C	No Break		
Notched Izod Impact Strength (23°C)	No Break		ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	56.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	42.0	°C	ISO 75-2/A
Brittleness Temperature	-100	°C	ISO 974
Glass Transition Temperature ¹	-40.0	°C	ISO 11357-2
Melting Temperature ²	207	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	1.8E-4	cm/cm/°C	
Transverse	2.0E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	4.0E+14	ohms	IEC 60093
Volume Resistivity	8.0E+12	ohms · cm	IEC 60093
Electric Strength	19	kV/mm	IEC 60243-1
Dissipation Factor			IEC 60250

100 Hz	0.030		
1 MHz	9.5E-3		
Comparative Tracking Index	600	V	IEC 60112
Additional Information	Nominal Value	Unit	
Effective Thermal Diffusivity	0.0544	cSt	
NOTE			
1.	10°C/min		
2.	10°C/min		

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