

Hytrel® HTR8341G BK320

THERMOPLASTIC POLYESTER ELASTOMER

DuPont Performance Polymers

Message:

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

General Information			
Additive	Heat Stabilizer		
Features	Heat Stabilized		
Uses	Blow Molding Applications		
	Profiles		
	Sheet		
Forms	Pellets		
Processing Method	Blow Molding		
	Casting		
	Coating		
	Extrusion		
	Injection Molding		
	Profile Extrusion		
	Sheet Extrusion		
	Thermoforming		
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
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	1.00	cm ³ /10min	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	29.0	MPa	
10% Strain	6.70	MPa	
50% Strain	11.9	MPa	
Tensile Strain (Break)	> 300	%	ISO 527-2
Nominal Tensile Strain at Break	390	%	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		
Thermal	Nominal Value	Unit	Test Method
Melting Temperature ¹	208	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	1.8E-4	cm/cm/°C	
Transverse	1.7E-4	cm/cm/°C	
NOTE			
1.	10°C/min		

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