

Hytrel® HTR237BG BK320

THERMOPLASTIC POLYESTER ELASTOMER

DuPont Performance Polymers

Message:

45 Shore D, Lubricated, High Viscosity Polyester Elastomer Developed for Blow Molding

General Information			
Additive	Heat Stabilizer		
Features	Heat Stabilized		
Uses	Blow Molding Applications		
Forms	Pellets		
Processing Method	Blow Molding		
Multi-Point Data	Isothermal Stress vs. Strain (TPE) (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	1.15	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/2.16 kg)	0.40	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	4.00	cm³/10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	45		
Shore D, 15 sec	41		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	90.0	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Break	30.0	MPa	
10% Strain	7.60	MPa	
50% Strain	12.1	MPa	
100% Strain	15.0	MPa	
300% Strain	26.0	MPa	
Tensile Strain (Break)	> 300	%	ISO 527-2
Flexural Modulus	90.0	MPa	ISO 178
Elastomers	Nominal Value	Unit	Test Method
Tear Strength			ISO 34-1
Across Flow	120	kN/m	
Flow	120	kN/m	

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C, Partial Break	120	kJ/m ²	
23°C	No Break		
Notched Izod Impact Strength			ISO 180/1A
-40°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	57.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	41.0	°C	ISO 75-2/A
Brittleness Temperature	-100	°C	ISO 974
Glass Transition Temperature ¹	-45.0	°C	ISO 11357-2
Melting Temperature ²	204	°C	ISO 11357-3
NOTE			
1.	10°C/min		
2.	10°C/min		

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