

Hytrel® HTR8730 BK320

THERMOPLASTIC POLYESTER ELASTOMER

DuPont Performance Polymers

Message:

63 Shore D High Viscosity Polyester Elastomer with Excellent Mechanical Properties at Elevated Temperatures Developed for Blow Molding

General Information			
Additive	Heat Stabilizer		
	UV Stabilizer		
Features	Heat Stabilized		
Uses	Blow Molding Applications		
Forms	Pellets		
Processing Method	Blow Molding		
Part Marking Code (ISO 11469)	>TPC-ET<		
Resin ID (ISO 1043)	TPC-ET		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/10.0 kg)	5.0	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/10.0 kg)	5.00	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	2.1	%	
Flow	1.9	%	
Water Absorption			
24 hr	0.30	%	ASTM D570
23°C, 24 hr, 2.00 mm	0.50	%	ISO 62
Equilibrium, 23°C, 2.00 mm, 50% RH	0.20	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	58		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	270	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Break	41.0	MPa	
5.0% Strain	10.0	MPa	
10% Strain	15.0	MPa	
50% Strain	22.0	MPa	
100% Strain	24.0	MPa	
Tensile Strain (Break)	> 300	%	ISO 527-2
Nominal Tensile Strain at Break	450	%	ISO 527-2

Flexural Modulus	290	MPa	ISO 178
Elastomers	Nominal Value	Unit	Test Method
Tear Strength			ISO 34-1
Across Flow	150	kN/m	
Flow	180	kN/m	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C	10	kJ/m ²	
-30°C	14	kJ/m ²	
23°C	No Break		
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Melting Temperature ¹	212	°C	ISO 11357-3
Flammability	Nominal Value		Test Method
Flammability Classification (1.50 mm)	HB		IEC 60695-11-10, -20
Fill Analysis	Nominal Value	Unit	
Melt Density	1.03	g/cm ³	
NOTE			
1.	10°C/min		

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