

Hytrel® HTR8441 BK316

THERMOPLASTIC POLYESTER ELASTOMER

DuPont Performance Polymers

Message:

55 Shore D High Viscosity Polyester Elastomer Developed for Blow Molding

General Information			
Additive	Heat Stabilizer		
Features	Heat Stabilized		
Uses	Blow Molding Applications		
	Profiles		
Forms	Pellets		
Processing Method	Blow Molding		
	Profile Extrusion		
Multi-Point Data	Isothermal Stress vs. Strain (TPE) (ISO 11403-1)		
	Shear Stress vs. Shear Rate (ISO 11403-1)		
	Specific Volume vs Temperature (ISO 11403-2)		
	Viscosity vs. Shear Rate (ISO 11403-2)		
Part Marking Code (ISO 11469)	>TPC-ET<		
Resin ID (ISO 1043)	TPC-ET		
Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (240°C/10.0 kg)	10	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (240°C/10.0 kg)	10.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	2.1	%	
Flow	2.2	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	58		
Shore D, 15 sec	52		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	190	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Break	35.0	MPa	
5.0% Strain	7.80	MPa	

10% Strain	11.9	MPa	
50% Strain	19.0	MPa	
Tensile Strain (Break)	> 300	%	ISO 527-2
Nominal Tensile Strain at Break	380	%	ISO 527-2
Elastomers	Nominal Value	Unit	Test Method
Tear Strength - Flow	140	kN/m	ISO 34-1
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C	20	kJ/m ²	
-30°C	39	kJ/m ²	
23°C	No Break		
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-54.0	°C	ISO 974
Melting Temperature ¹	211	°C	ISO 11357-3
Flammability	Nominal Value	Unit	Test Method
Burning Rate (1.00 mm)	42	mm/min	ISO 3795
Fill Analysis	Nominal Value	Unit	
Melt Density	1.01	g/cm ³	
Specific Heat Capacity of Melt	2150	J/kg/°C	
Thermal Conductivity of Melt	0.16	W/m/K	
NOTE			
1.	10°C/min		

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