

Hytrel® HTR8163HVBK

THERMOPLASTIC POLYESTER ELASTOMER

DuPont Performance Polymers

Message:

65 Shore D Polyester Elastomer with Heat Ageing Protection Developed for Extrusion

General Information			
Additive	Heat Stabilizer		
Features	Heat Stabilized		
Uses	Profiles		
Forms	Pellets		
Processing Method	Extrusion		
	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	1.23	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.0	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	5.00	cm ³ /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	65		
Shore D, 15 sec	60		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	350	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	21.0	MPa	
Break	44.0	MPa	
5.0% Strain	12.0	MPa	
10% Strain	17.8	MPa	
50% Strain	20.0	MPa	
100% Strain	23.0	MPa	
300% Strain	32.0	MPa	

Tensile Strain			ISO 527-2
Yield	30	%	
Break	> 300	%	
Tensile Creep Modulus			ISO 899-1
1 hr	310	MPa	
1000 hr	260	MPa	
Flexural Modulus	374	MPa	ISO 178
Abrasion Resistance	110	mm ³	ISO 4649
Specific Heat Capacity of Melt	2090	J/kg/°C	
Thermal Conductivity of Melt	0.16	W/m/K	
Elastomers	Nominal Value	Unit	Test Method
Tear Strength - Flow	180	kN/m	ISO 34-1
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C	8.5	kJ/m ²	
-30°C	12	kJ/m ²	
23°C, Partial Break	130	kJ/m ²	
Notched Izod Impact Strength			ISO 180/1A
-50°C	10	kJ/m ²	
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-70.0	°C	ISO 974
Melting Temperature ¹	211	°C	ISO 11357-3
Fill Analysis	Nominal Value	Unit	
Melt Density	1.04	g/cm ³	
NOTE			
1.	10°C/min		

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