

Hytrel® HTR8068

THERMOPLASTIC POLYESTER ELASTOMER

DuPont Performance Polymers

Message:

44 Shore D, Flame Retardant, Polyester Elastomer Developed for Extrusion and Injection Molding

General Information			
UL YellowCard	E83247-100092419	E41938-234596	
Filler / Reinforcement	Mineral		
Additive	UV Stabilizer		
Uses	Film		
	Profiles		
	Sheet		
Agency Ratings	UL Unspecified Rating		
Forms	Pellets		
Processing Method	Casting		
	Coating		
	Extrusion		
	Film Extrusion		
	Injection Molding		
	Profile Extrusion		
	Sheet Extrusion		
	Thermoforming		
Part Marking Code (ISO 11469)	>TPC-ET-FR(17)<		
Resin ID (ISO 1043)	TPC-ET-FR(17)		
Physical	Nominal Value	Unit	Test Method
Density	1.43	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	3.60	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.1	%	
Flow	1.1	%	
Water Absorption (24 hr)	1.9	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	44		
Shore D, 15 sec	38		

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	140	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Break	13.0	MPa	
10% Strain	5.90	MPa	
50% Strain	7.30	MPa	
Tensile Strain (Break)	> 300	%	ISO 527-2
Nominal Tensile Strain at Break	340	%	ISO 527-2
Flexural Modulus	155	MPa	ISO 178
Elastomers	Nominal Value	Unit	Test Method
Tear Strength			ISO 34-1
Across Flow	70	kN/m	
Flow	70	kN/m	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C	5.0	kJ/m ²	
-30°C	7.0	kJ/m ²	
23°C	40	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	46.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	41.0	°C	ISO 75-2/A
Brittleness Temperature	-48.0	°C	ISO 974
Melting Temperature ¹	170	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	1.5E-4	cm/cm/°C	
Transverse	1.7E-4	cm/cm/°C	
Flammability	Nominal Value	Unit	Test Method
Flammability Classification (1.50 mm)	V-0		IEC 60695-11-10, -20
Oxygen Index	26	%	ISO 4589-2
Fill Analysis	Nominal Value	Unit	
Melt Density	1.30	g/cm ³	
Additional Information	Nominal Value	Unit	
Effective Thermal Diffusivity	0.0544	cSt	
NOTE			
1.	10°C/min		

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