

Hytrel® HTR8206

THERMOPLASTIC POLYESTER ELASTOMER

DuPont Performance Polymers

Message:

High Performance Polyester Elastomer with High Moisture Vapor Transmission Rate Developed for Extrusion and Injection Molding

General Information			
Features	High Moisture Vapor Transmission		
RoHS Compliance	Contact manufacturer		
Forms	Particle		
Processing Method	Film extrusion		
	Extrusion		
	Casting		
	Sheet extrusion molding		
	Profile extrusion molding		
Multi-Point Data	Injection molding		
	Shear Stress vs. Shear Rate (ISO 11403-1)		
Part Marking Code (ISO 11469)	Viscosity vs. Shear Rate (ISO 11403-2)		
	>TPC-ET		
Resin ID (ISO 1043)	TPC-ET		
Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/2.16 kg)	14.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Transverse flow	1.5	%	ISO 294-4
Flow	1.4	%	ISO 294-4
Water Absorption			ISO 62
23°C, 24 hr	35	%	ISO 62
Balance, 23°C, 2.00mm, 50% RH	1.3	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ISO 868
Shaw D	40		ISO 868
Shaw D, 15 seconds	38		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	80.0	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Fracture	20.0	MPa	ISO 527-2

5.0% strain	3.40	MPa	ISO 527-2
10% strain	5.40	MPa	ISO 527-2
50% strain	9.50	MPa	ISO 527-2
Tensile Strain (Break)	> 300	%	ISO 527-2
Nominal Tensile Strain at Break	420	%	ISO 527-2
Flexural Modulus	80.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	No Break		ISO 179/1eA
23°C	No Break		ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	No Break		ISO 179/1eU
23°C	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Melting Temperature ¹	200	°C	ISO 11357-3
Effective Thermal Diffusivity ²	5.44E-8	m²/s	
FMVSS Flammability	B		FMVSS 302
Specific Heat Capacity of Melt ³	2100	J/kg/°C	
Thermal Conductivity of Melt ⁴	0.16	W/m/K	
Melt Temperature, Optimum	230	°C	
Mold Temperature, Optimum	45	°C	
Drying Recommended	yes		
Flammability	Nominal Value	Unit	Test Method
Burning Rate ⁵ (1.00 mm)	< 100	mm/min	ISO 3795
Fill Analysis	Nominal Value	Unit	
Melt Density	1.02	g/cm³	
Injection	Nominal Value	Unit	
Drying Temperature	100	°C	
Drying Time - Desiccant Dryer	2.0 - 4.0	hr	
Suggested Max Moisture	0.080	%	
Processing (Melt) Temp	220 - 240	°C	
Mold Temperature	40 - 50	°C	
NOTE			
1.	10°C/min		
2.	Derived from Similar Grade		
3.	Derived from Similar Grade		
4.	Derived from Similar Grade		
5.	FMVSS 302		

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