

Hytrel® HTR8241

THERMOPLASTIC POLYESTER ELASTOMER

DuPont Performance Polymers

Message:

65 Shore D High Performance Polyester Elastomer Developed for Extrusion

General Information			
Additive	UV stabilizer		
Features	UV Stabilized		
RoHS Compliance	Contact manufacturer		
Forms	Particle		
Processing Method	Film extrusion		
	Extrusion		
	Casting		
	Sheet extrusion molding		
	Coating		
	Profile extrusion molding		
Multi-Point Data	Shear Stress vs. Shear Rate (ISO 11403-1)		
	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	1.24	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	5.00	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Transverse flow	1.6	%	ISO 294-4
Flow	1.7	%	ISO 294-4
Water Absorption			ISO 62
Saturated, 23°C, 2.00mm	0.70	%	ISO 62
Balance, 23°C, 2.00mm, 50% RH	0.20	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ISO 868
Shaw D	63		ISO 868
Shaw D, 15 seconds	60		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	360	MPa	ISO 527-2
Tensile Stress			ISO 527-2

Yield	22.0	MPa	ISO 527-2
Fracture	45.0	MPa	ISO 527-2
5.0% strain	12.5	MPa	ISO 527-2
10% strain	18.0	MPa	ISO 527-2
50% strain	21.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	29	%	ISO 527-2
Fracture	> 300	%	ISO 527-2
Nominal Tensile Strain at Break	490	%	ISO 527-2
Flexural Modulus	360	MPa	ISO 178
Elastomers	Nominal Value	Unit	Test Method
Tear Strength			ISO 34-1
Transverse flow	200	kN/m	ISO 34-1
Flow	210	kN/m	ISO 34-1
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C	10	kJ/m ²	ISO 179/1eA
-30°C	14	kJ/m ²	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	211	°C	ISO 11357-3
Linear thermal expansion coefficient			ISO 11359-2
Flow	2.0E-4	cm/cm/°C	ISO 11359-2
Lateral	2.0E-4	cm/cm/°C	ISO 11359-2
Effective Thermal Diffusivity	5.44E-8	m ² /s	
FMVSS Flammability	B		FMVSS 302
Specific Heat Capacity of Melt	2070	J/kg/°C	
Thermal Conductivity of Melt	0.15	W/m/K	
Melt Temperature, Optimum	240	°C	
Mold Temperature, Optimum	45	°C	
Drying Recommended	yes		
Extrusion Melt Temperature, Optimum	235	°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.0E+14	ohms	IEC 60093
Volume Resistivity	7.0E+12	ohms · cm	IEC 60093
Dielectric Strength	18	kV/mm	IEC 60243-1
Dissipation Factor			IEC 60250
100 Hz	0.011		IEC 60250
1 MHz	0.011		IEC 60250

Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Burning Rate ² (1.00 mm)	< 100	mm/min	ISO 3795
Fill Analysis	Nominal Value	Unit	
Melt Density	1.07	g/cm ³	
Injection	Nominal Value	Unit	
Drying Temperature	110	°C	
Drying Time - Desiccant Dryer	2.0 - 4.0	hr	
Suggested Max Moisture	0.080	%	
Processing (Melt) Temp	230 - 250	°C	
Mold Temperature	40 - 50	°C	
Extrusion	Nominal Value	Unit	
Drying Temperature	100 - 120	°C	
Suggested Max Moisture	0.060	%	
NOTE			
1.	10°C/min		
2.	FMVSS 302		

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