Hytrel® HTR8685 BK022A

THERMOPLASTIC POLYESTER ELASTOMER

DuPont Performance Polymers

Message:

44 Shore D, Lubricated, High Viscosity Polyester Elastomer with Superior Fatigue Resistance Developed for Blow Molding

General Information			
Additive	Heat Stabilizer Lubricant		
Features	Heat Stabilized Lubricated		
Uses	Blow Molding Applications Profiles		
Forms	Pellets		
Processing Method	Blow Molding Profile Extrusion		
Part Marking Code (ISO 11469)	>TPC-ET<		
Resin ID (ISO 1043)	TPC-ET		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.15	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.6	%	
Flow	1.7	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness			ISO 868
Shore D	44		
Shore D, 15 sec	41		
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	100	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Break	30.0	MPa	
10% Strain	8.40	MPa	
50% Strain	14.0	MPa	
Tensile Strain (Break)	> 300	%	ISO 527-2
Nominal Tensile Strain at Break	350	%	ISO 527-2
Flexural Modulus	100	MPa	ISO 178

Elastomers	Nominal Value	Unit	Test Method
Tear Strength			ISO 34-1
Across Flow	110	kN/m	
Flow	110	kN/m	
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	No Break		ISO 179/1eA
Thermal	**Nominal Value**	**Unit**	**Test Method**
Melting Temperature [1]	206	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	2.1E-4	cm/cm/°C	
Transverse	2.0E-4	cm/cm/°C	
NOTE			
1.	10°C/min		

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