

Hytrel® RS 40F3 NC010

Thermoplastic Copolyester Elastomer

DuPont Performance Polymers

Message:

40 Shore D, Renewably Sourced, High Flow Polyester Elastomer Developed for Injection Molding

General Information			
Forms	Pellets		
Processing Method	Injection Molding		
Part Marking Code (ISO 11469)	>TPC-ET<		
Resin ID (ISO 1043)	TPC-ET		
Physical	Nominal Value	Unit	Test Method
Density	1.11	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/2.16 kg)	20	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (220°C/2.16 kg)	20.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	0.60	%	
Across Flow : 80°C, 48 hr	0.70	%	
Flow	0.80	%	
Flow : 80°C, 48 hr	0.90	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	37		
Shore D, 15 sec	33		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	45.0	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Break	26.0	MPa	
5.0% Strain	2.10	MPa	
10% Strain	3.30	MPa	
50% Strain	6.50	MPa	
Tensile Strain (Break)	> 300	%	ISO 527-2
Nominal Tensile Strain at Break	800	%	ISO 527-2
Flexural Modulus	50.0	MPa	ISO 178
Abrasion Resistance	200	mm ³	ISO 4649
Effective Thermal Diffusivity	0.0544	cSt	
Elastomers	Nominal Value	Unit	Test Method
Tear Strength			ISO 34-1
Across Flow	99	kN/m	

Flow	97	kN/m	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C	No Break		
-30°C	No Break		
23°C	No Break		
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-90.0	°C	ISO 974
Ductile / Brittle Transition Temperature	-90.0	°C	ISO 6603-2
Melting Temperature ¹	190	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	2.1E-4	cm/cm/°C	
Transverse	2.0E-4	cm/cm/°C	
Flammability	Nominal Value	Unit	Test Method
Flammability Classification (1.50 mm)	HB		IEC 60695-11-10, -20
Oxygen Index	20	%	ISO 4589-2
NOTE			
1.	10°C/min		

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