

Hytrel® G4078 NC010

THERMOPLASTIC POLYESTER ELASTOMER

DuPont Performance Polymers

Message:

40 Shore D Standard Performance Polyester Elastomer with Non-discoloring Stabilizer

General Information			
Uses	Film		
	Profiles		
	Sheet		
Forms	Pellets		
Processing Method	Casting		
	Film Extrusion		
	Injection Molding		
	Profile Extrusion		
	Sheet Extrusion		
	Thermoforming		
Multi-Point Data	Isothermal Stress vs. Strain (TPE) (ISO 11403-1)		
	Tensile Modulus vs. Temperature (ISO 11403-1)		
Part Marking Code (ISO 11469)	>TPC-ET<		
Resin ID (ISO 1043)	TPC-ET		
Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.2	%	
Flow	0.50	%	
Water Absorption			
24 hr	3.4	%	ASTM D570
23°C, 24 hr, 2.00 mm	6.5	%	ISO 62
Equilibrium, 23°C, 2.00 mm, 50% RH	0.70	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	33		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	55.0	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Break	16.0	MPa	
5.0% Strain	2.50	MPa	

10% Strain	4.20	MPa	
50% Strain	8.50	MPa	
Tensile Strain (Break)	220	%	ISO 527-2
Nominal Tensile Strain at Break	250	%	ISO 527-2
Films	Nominal Value	Unit	Test Method
Water Vapor Transmission Rate (23°C, 85% RH)	2000	g/m ² /24 hr	DIS 15106-1/-2
Elastomers	Nominal Value	Unit	Test Method
Tear Strength - Across Flow	120	kN/m	ISO 34-1
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	170	°C	ISO 11357-3
Flammability	Nominal Value		Test Method
Flammability Classification (1.50 mm)	HB		IEC 60695-11-10, -20
Fill Analysis	Nominal Value	Unit	
Melt Density	1.06	g/cm ³	
NOTE			
1.	10°C/min		

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