

DuPont Performance Polymers Hytrel® G4078 NC010 Polyester Elastomer TPC-ET (Unverified Data**)

Category : Polymer , Thermoplastic , Polyester, TP , Polyester Thermoplastic Elastomer

Material Notes:

40 Shore D Standard Performance Polyester Elastomer with Non-discoloring Stabilizer Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Hytrel-G4078-NC010-Polyester-Elastomer-TPC-ET-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.06 g/cc	0.0383 lb/in ³	
	1.18 g/cc	0.0426 lb/in ³	ISO 1183
Water Absorption	6.5 %	6.5 %	Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Moisture Absorption	0.700 %	0.700 %	Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Water Absorption at Saturation	3.4 %	3.4 %	Immersion 24h; ASTM D570
Water Vapor Transmission	2000 g/m ² /day	129 g/100 in ² /day	23°C/85%r.h.; DIS 15106-1/-2
	@Thickness 0.0250 mm	@Thickness 0.000984 in	
Linear Mold Shrinkage, Flow	0.0050 cm/cm	0.0050 in/in	ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.012 cm/cm	0.012 in/in	ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	33	33	15s; ISO 868
Tensile Strength at Break	16.0 MPa	2320 psi	ISO 527-1/-2
Tensile Stress	2.50 MPa	363 psi	ISO 527-1/-2
	@Strain 5.00 %	@Strain 5.00 %	
	4.20 MPa	609 psi	ISO 527-1/-2
	@Strain 10.0 %	@Strain 10.0 %	
	8.50 MPa	1230 psi	ISO 527-1/-2
	@Strain 50.0 %	@Strain 50.0 %	

Elongation at Break Mechanical Properties	220 % Metric	220 % English	ISO 527-1/-2 Comments
	250 %	250 %	Nominal; ISO 527-1/-2
Tensile Modulus	0.0550 GPa	7.98 ksi	ISO 527-1/-2
Charpy Impact, Notched	NB	NB	ISO 179/1eA
Tear Strength	120 kN/m	685 pli	normal; ISO 34-1

Thermal Properties	Metric	English	Comments
Melting Point	170 °C	338 °F	10°C/min; ISO 11357-1/-3
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	IEC 60695-11-10

Descriptive Properties	Value	Comments
Delivery Form	Pellets	
Part Marking Code	>TPC-ET<	ISO 11469
Processing	Casting	
	Film Extrusion	
	Injection Moulding	
	Profile Extrusion	
	Sheet Extrusion	
	Thermoforming	
Regional Availability	Asia Pacific	
	Europe	
	Global	
	Near East/Africa	
	North America	
	South and Central America	
Resin Identification	TPC-ET	ISO 1043
Type of extrusion	blown	

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