

DuPont Performance Polymers Hytrel® RS 40F5 NC010 Polyester Elastomer TPC-ET (Unverified Data**)

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

Material Notes:

40 Shore D Renewably Sourced Medium Viscosity Polyester Elastomer Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Hytrel-RS-40F5-NC010-Polyester-Elastomer-TPC-ET-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.11 g/cc	0.0401 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0090 cm/cm	0.0090 in/in	ISO 294-4 2577
	0.010 cm/cm	0.010 in/in	48h at 80°C; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	ISO 294-4 2577
	0.0080 cm/cm	0.0080 in/in	48h at 80°C; ISO 294-4
Melt Flow	9.0 g/10 min	9.0 g/10 min	cm ³ /10min; ISO 1133
	@Load 2.16 kg, Temperature 220 °C	@Load 4.76 lb, Temperature 428 °F	
	9.0 g/10 min	9.0 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 220 °C	@Load 4.76 lb, Temperature 428 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	33	33	15s; ISO 868
	<= 37	<= 37	ISO 868
Tensile Strength at Break	25.0 MPa	3630 psi	ISO 527-1/-2
Tensile Stress	2.10 MPa	305 psi	ISO 527-1/-2
	@Strain 5.00 %	@Strain 5.00 %	
	3.50 MPa	508 psi	ISO 527-1/-2
	@Strain 10.0 %	@Strain 10.0 %	
	6.70 MPa	972 psi	ISO 527-1/-2
	@Strain 50.0 %	@Strain 50.0 %	
Elongation at Break	>= 300 %	>= 300 %	ISO 527-1/-2

Mechanical Properties	800 % Metric	800 % English	Nominal: ISO 527-1/-2 Comments
Tensile Modulus	0.0450 GPa	6.53 ksi	ISO 527-1/-2
Flexural Modulus	0.0500 GPa	7.25 ksi	ISO 178
Shear Strength	0.1335 MPa	19.36 psi	ISO 11403-1 -2
	@Shear Rate 500 1/s, Temperature 230 °C	@Shear Rate 500 1/s, Temperature 446 °F	
	0.176 MPa	25.5 psi	ISO 11403-1 -2
Charpy Impact Unnotched	@Shear Rate 500 1/s, Temperature 210 °C	@Shear Rate 500 1/s, Temperature 410 °F	ISO 11403-1 -2
	0.2305 MPa	33.43 psi	ISO 11403-1 -2
	@Shear Rate 500 1/s, Temperature 190 °C	@Shear Rate 500 1/s, Temperature 374 °F	
Charpy Impact, Notched	NB	NB	ISO 179/1eU
	NB	NB	ISO 179/1eU
Charpy Impact, Notched	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 179/1eA
	NB	NB	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 179/1eA
Tear Strength	NB	NB	ISO 179/1eA
	@Temperature -40.0 °C	@Temperature -40.0 °F	ISO 179/1eA
	101 kN/m	576 pli	parallel; ISO 34-1
	103 kN/m	588 pli	normal; ISO 34-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	210 µm/m-°C	117 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	200 µm/m-°C	111 µin/in-°F	ISO 11359-1/-2
Melting Point	190 °C	374 °F	10°C/min; ISO 11357-1/-3
Brittleness Temperature	-95.0 °C	-139 °F	ISO 974
	-95.0 °C	-139 °F	ISO 6603-2
Flammability, UL94	HB	HB	IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Oxygen Index	20 %	20 %	ISO 4589-1/-2

Thermal Properties	Metric	English	Comments
Descriptive Properties	Value		Comments
Delivery Form	Pellets		
Eff. thermal diffusivity	5.44E-08 m ² /s		
Part Marking Code	>TPC-ET<		ISO 11469
Processing	Calandring		
	Casting		
	Coatable		
	Film Extrusion		
	Injection Moulding		
	Other Extrusion		
	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

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