

DuPont Performance Polymers Hytrel® 6359FG NC010 TPC-ET (Unverified Data**)

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

Material Notes:

Hytrel® 6359FG is a medium modulus Hytrel® grade with nominal durometer hardness of 63D. It contains non-discoloring stabilizer. It can be processed by many conventional thermoplastic processing techniques like injection molding and extrusion. Food grade. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Hytrel-6359FG-NC010-TPC-ET-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in³	ISO 1183
Water Absorption	0.20 %	0.20 %	Equilibrium 50%RH; ISO 62
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.60 %	0.60 %	Saturation, immersed; ISO 62
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Melt Flow	9.0 g/10 min	9.0 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	
Melt Index of Compound	8.5 g/10 min	8.5 g/10 min	cm³/10 min; ISO 1133
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	<= 63	<= 63	ISO 868
	58	58	ISO 868
	@Time 15.0 sec	@Time 0.00417 hour	ISO 527 (1BA bar)
	41.0 MPa	5950 psi	
Tensile Strength at Break	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 527 (1BA bar)
	12.0 MPa	1740 psi	
Tensile Stress	@Strain 5.00 %, Temperature 23.0 °C	@Strain 5.00 %, Temperature 73.4 °F	ISO 527 (1BA bar)
	15.0 MPa	2180 psi	
	@Strain 10.0 %, Temperature 23.0 °C	@Strain 10.0 %, Temperature 73.4 °F	ISO 527 (1BA bar)

Mechanical Properties	19.0 MPa Metric	2760 psi English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	>= 50 %	>= 50 %	nominal; ISO 527 (1BA bar)
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	>= 300 %	>= 300 %	ISO 527 (1BA bar)
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	420 %	420 %	ISO 527 (1BA bar)
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Yield	27 %	27 %	ISO 527 (1BA bar)
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Modulus	0.260 GPa	37.7 ksi	ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	19.0 kJ/m²	9.04 ft-lb/in²	ISO 180/1A
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	81.0 kJ/m²	38.5 ft-lb/in²	ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.50 J/cm²	7.14 ft-lb/in²	ISO 179/1eA
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	2.50 J/cm²	11.9 ft-lb/in²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	12.0 J/cm²	57.1 ft-lb/in²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	211 °C	412 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	85.0 °C	185 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	45.0 °C	113 °F	ISO 75-1/-2
Brittleness Temperature	<= 100 °C	<= 212 °F	ISO 974

Processing Properties	Metric	English	Comments
Melt Temperature	230 °C	446 °F	Optimum; Extrusion

Processing Properties	Metric	English	Comments
Mold Temperature	45.0 °C	113 °F	optimum; Injection Molding
	45.0 - 55.0 °C	113 - 131 °F	Injection Molding
Drying Temperature	100 °C	212 °F	Extrusion
	100 °C	212 °F	Injection Molding
Dry Time	2.00 - 3.00 hour	2.00 - 3.00 hour	Extrusion
	2.00 - 3.00 hour	2.00 - 3.00 hour	Injection Molding
Moisture Content	<= 0.080 %	<= 0.080 %	Extrusion
	<= 0.080 %	<= 0.080 %	Injection Molding

Descriptive Properties	Value	Comments
Additive	Antioxidant	
Appearance	Natural Color	
	Natural Color	
Drying Recommended	Yes	
Features	Chemical Resistance	
	Energy Absorption, High	
	Good Creep Resistance	
	Hardness, High	
	Noise Dampening	
Generic	TPC-ET	
Material Status	Current	
Part Marking Code	>TPC-ET<	ISO 11469
Processing Method	Extrusion	
	Injection Molding	
Product Category	Extrusion Resins	
	Food Contact Resins	
Region Available - Global	Yes	

Resin Identification Descriptive Properties	TPC-ET Value	ISO 1043 Comments
RoHS Compliance	Contact Manufacturer	
Uses	Food Applications, Non-specific	

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