

DuPont Performance Polymers Hytrel® 5553FG NC010 TPC-ET (Unverified Data**)

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

Material Notes:

Hytrel® 5553FG NC010 is a high performance thermoplastic polyester elastomer with food compliance specificity. Information provided by DuPont

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Hytrel-5553FG-NC010-TPC-ET-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	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 %	Immersion 24h; ISO 62
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Linear Mold Shrinkage, Flow	0.014 cm/cm	0.014 in/in	ISO 294-4
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	0.014 cm/cm	0.014 in/in	ISO 294-4
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Melt Flow	8.0 g/10 min	8.0 g/10 min	ISO 1133
	@Load 2.16 kg,	@Load 4.76 lb,	
	Temperature 220 °C	Temperature 428 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	51	51	15s; ISO 868
	<= 56	<= 56	ISO 868
Tensile Strength at Break	40.0 MPa	5800 psi	ISO 527 (1BA bar)
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Stress	6.60 MPa	957 psi	ISO 527 (1BA bar)
	@Strain 5.00 %, Temperature 23.0 °C	@Strain 5.00 %, Temperature 73.4 °F	
	10.2 MPa	1480 psi	

Mechanical Properties	Metric	English	Comments
	@Strain 10.0 %, Temperature 23.0 °C	@Strain 10.0 %, Temperature 73.4 °F	ISO 527 (1BA bar)
Elongation at Break	480 % @Temperature 23.0 °C	480 % @Temperature 73.4 °F	ISO 527 (1BA bar)
	600 % @Temperature 23.0 °C	600 % @Temperature 73.4 °F	ISO 527 (1BA bar)
Tensile Modulus	0.167 GPa @Temperature 23.0 °C	24.2 ksi @Temperature 73.4 °F	ISO 527
Charpy Impact, Notched	14.5 J/cm ² @Temperature -40.0 °C	69.0 ft-lb/in ² @Temperature -40.0 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	201 °C	394 °F	10°C/min; ISO 11357-1/-3

Processing Properties	Metric	English	Comments
Melt Temperature	225 °C	437 °F	Optimum; Extrusion
	220 - 235 °C	428 - 455 °F	Extrusion
	230 °C	446 °F	Optimum; Injection Molding
	220 - 250 °C	428 - 482 °F	Injection Molding
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	Dehumidified Dryer; Extrusion
	2.00 - 3.00 hour	2.00 - 3.00 hour	Dehumidified Dryer; Injection Molding
Moisture Content	<= 0.060 %	<= 0.060 %	Extrusion
	<= 0.080 %	<= 0.080 %	Injection Molding

Descriptive Properties	Value	Comments
Generic	TPC-ET	
Material Status	Preliminary Data	

Descriptive Properties	Value	Comments
Region Available - Global	Yes	
Resin Identification	TPC-ET	ISO 1043

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