

DuPont Performance Polymers Hytrel® 6646 NC010 TPC-ET (Unverified Data**)

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

Material Notes:

Hytrel® 6646 NC010 is a medium modulus grade with nominal hardness of 66D. It contains non-discoloring stabilizer. It can be processed by many conventional thermoplastic processing techniques like injection molding and extrusion. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Hytrel-6646-NC010-TPC-ET-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.233 g/cc	0.04454 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0129 cm/cm	0.0129 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.0124 cm/cm	0.0124 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	61	61	ISO 868
	@Temperature 23.0 °C, Time 15.0 sec	@Temperature 73.4 °F, Time 0.00417 hour	
	67	67	ISO 868
	@Temperature 23.0 °C, Time 1.00 sec	@Temperature 73.4 °F, Time 0.000278 hour	
Tensile Strength at Break	34.0 MPa	4930 psi	ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Strength, Yield	20.0 MPa	2900 psi	ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	330 %	330 %	nominal; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	350 %	350 %	ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Yield	29 %	29 %	ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Modulus	0.290 GPa	42.1 ksi	ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties Charpy Impact, Notched	Metric 1.20 J/cm ²	English 6.10 ft ² lb/in ²	Comments ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °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)	81.0 °C	178 °F	ISO 75-1/-2

Processing Properties	Metric	English	Comments
Melt Temperature	245 °C	473 °F	Optimum; Extrusion
	245 °C	473 °F	Optimum; Injection Molding
	240 - 250 °C	464 - 482 °F	Extrusion
	240 - 250 °C	464 - 482 °F	Injection Molding
Mold Temperature	45.0 °C	113 °F	optimum; Injection Molding
Drying Temperature	80.0 - 100 °C	176 - 212 °F	Extrusion
	80.0 - 100 °C	176 - 212 °F	Injection Molding
Dry Time	2.00 - 3.00 hour	2.00 - 3.00 hour	Injection Molding
	2.00 - 4.00 hour	2.00 - 4.00 hour	Extrusion
Moisture Content	<= 0.050 %	<= 0.050 %	Extrusion
	<= 0.10 %	<= 0.10 %	Injection Molding

Descriptive Properties	Value	Comments
Appearance	Natural Color	
Forms	Pellets	
Generic	TPC-ET	
Material Status	Current	
Part Marking Code	>TPC-ET<	ISO 11469
Processing Method	Injection Molding, Extrusion	
Product Category	Extrusion Resins	
Region Available - Global	Yes	
Resin Identification	TPC-ET	ISO 1043

Descriptive Properties	Value	Comments
RoHS Compliance	Contact Manufacturer	

Contact Songhan Plastic Technology Co.,Ltd.

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