

DuPont Performance Polymers Hytrel® G5564 TPC-ET (Unverified Data**)

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

Material Notes:

Hytrel® G5564 is a 55 nom. Shore D, heat stable, plasticiser free high viscosity resin for extrusion; low temperature impact resistance as well as excellent mechanical properties; good hydrocarbon resistance. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Hytrel-G5564-TPC-ET-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in³	ISO 1183
Water Absorption	0.50 %	0.50 %	Equilibrium 50%RH; ISO 62
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1.5 %	1.5 %	Immersion 24h; ISO 62
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	2.2 %	2.2 %	Saturation, immersed; ISO 62
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	54	54	ISO 868
	@Time 15.0 sec	@Time 0.00417 hour	
Tensile Strength at Break	30.0 MPa	4350 psi	ISO 527 (1BA bar)
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Stress	7.50 MPa	1090 psi	ISO 527 (1BA bar)
	@Strain 5.00 %, Temperature 23.0 °C	@Strain 5.00 %, Temperature 73.4 °F	
	11.0 MPa	1600 psi	ISO 527 (1BA bar)
	@Strain 10.0 %, Temperature 23.0 °C	@Strain 10.0 %, Temperature 73.4 °F	
	16.0 MPa	2320 psi	ISO 527 (1BA bar)
	@Strain 50.0 %, Temperature 23.0 °C	@Strain 50.0 %, Temperature 73.4 °F	
Elongation at Break	>= 300 %	>= 300 %	nominal; ISO 527 (1BA bar)
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	>= 300 %	>= 300 %	ISO 527 (1BA bar)

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
Tensile Modulus	0.210 GPa @Temperature 23.0 °C	30.5 ksi @Temperature 73.4 °F	ISO 527
Charpy Impact, Notched	1.70 J/cm² @Temperature -30.0 °C	8.09 ft-lb/in² @Temperature -22.0 °F	ISO 179/1eA
	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	215 °C	419 °F	10°C/min; ISO 11357-1/-3

Processing Properties	Metric	English	Comments
Melt Temperature	230 °C	446 °F	Optimum; Extrusion
	225 - 245 °C	437 - 473 °F	Extrusion
Drying Temperature	100 °C	212 °F	Extrusion
Dry Time	2.00 - 3.00 hour	2.00 - 3.00 hour	Extrusion
Moisture Content	<= 0.080 %	<= 0.080 %	Extrusion

Descriptive Properties	Value	Comments
Generic	TPC-ET	
Part Marking Code	>TPC-ET<	ISO 11469
Product Category	Extrusion Resins	
Resin Identification	TPC-ET	ISO 1043

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