

DuPont Performance Polymers Hytrel® 4053FG TPC-ET (Unverified Data**)

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

Material Notes:

Hytrel® 4053FG is a low modulus high performance thermoplastic elastomer with food compliance specificity. It is suitable for extrusion and injection molding processes. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Hytrel-4053FG-TPC-ET-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.159 g/cc	0.04187 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.00020 cm/cm	0.00020 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.0037 cm/cm	0.0037 in/in	ISO 294-4
Melt Flow	5.3 g/10 min @Load 2.16 kg, Temperature 190 °C	5.3 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	38 @Temperature 23.0 °C, Time 15.0 sec	38 @Temperature 73.4 °F, Time 0.00417 hour	ISO 868
	44 @Temperature 23.0 °C, Time 1.00 sec	44 @Temperature 73.4 °F, Time 0.000278 hour	ISO 868
Tensile Strength at Break	26.0 MPa @Temperature 23.0 °C	3770 psi @Temperature 73.4 °F	ISO 527 (1BA bar)
Tensile Stress	2.40 MPa @Strain 5.00 %, Temperature 23.0 °C	348 psi @Strain 5.00 %, Temperature 73.4 °F	ISO 527 (1BA bar)
	4.10 MPa @Strain 10.0 %, Temperature 23.0 °C	595 psi @Strain 10.0 %, Temperature 73.4 °F	ISO 527 (1BA bar)
	7.30 MPa @Strain 50.0 %, Temperature 23.0 °C	1060 psi @Strain 50.0 %, Temperature 73.4 °F	ISO 527 (1BA bar)
Elongation at Break	470 % @Temperature 23.0 °C	470 % @Temperature 73.4 °F	ISO 527 (1BA bar)

Mechanical Properties	Metric, GPa	English	Comments
Tensile Modulus	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 527
Charpy Impact, Notched	9.90 J/cm ²	47.1 ft-lb/in ²	partial break; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	13.7 J/cm ²	65.2 ft-lb/in ²	partial break; ISO 179/1eA
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	155 °C	311 °F	10°C/min; ISO 11357-1/-3

Processing Properties	Metric	English	Comments
Melt Temperature	180 °C	356 °F	Optimum; Extrusion
	180 °C	356 °F	Optimum; Injection Molding
Mold Temperature	30.0 - 40.0 °C	86.0 - 104 °F	Injection Molding
Drying Temperature	80.0 °C	176 °F	Extrusion
	80.0 °C	176 °F	Injection Molding
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	Extrusion
	3.00 - 4.00 hour	3.00 - 4.00 hour	Injection Molding
Moisture Content	<= 0.080 %	<= 0.080 %	Extrusion
	<= 0.080 %	<= 0.080 %	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	
Product Category	Extrusion Resins	
	Food Contact Resins	

Descriptive Properties	High Performance Hytrel® Resins Value	Comments
	Unreinforced Resins	
Region Available - Global	Yes	
Resin Identification	TPC-ET	ISO 1043
RoHS Compliance	Contact Manufacturer	
Uses	Food Applications, Non-specific	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China