

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

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

Material Notes:

63 Shore D High Performance Polyester Elastomer Developed for Food Contact Applications Information provided by DuPont Performance Polymers

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	
	1.22 g/cc	0.0441 lb/in ³	ISO 1183
Water Absorption	0.60 %	0.60 %	Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Moisture Absorption	0.200 %	0.200 %	Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Viscosity	94540 cP	94540 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 250 °C	@Shear Rate 5000 1/s, Temperature 482 °F	
	101600 cP	101600 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 240 °C	@Shear Rate 5000 1/s, Temperature 464 °F	
	109200 cP	109200 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 230 °C	@Shear Rate 5000 1/s, Temperature 446 °F	
	323400 cP	323400 cP	ISO 11403-1 -2
	@Shear Rate 500 1/s, Temperature 250 °C	@Shear Rate 500 1/s, Temperature 482 °F	
	383700 cP	383700 cP	ISO 11403-1 -2
	@Shear Rate 500 1/s, Temperature 240 °C	@Shear Rate 500 1/s, Temperature 464 °F	
	454000 cP	454000 cP	ISO 11403-1 -2
	@Shear Rate 500 1/s, Temperature 230 °C	@Shear Rate 500 1/s, Temperature 446 °F	
Linear Mold Shrinkage, Flow	0.015 cm/cm	0.015 in/in	ISO 294-4 2577

Physical Properties	Metric	English	Comments
Melt Flow	8.5 g/10 min	8.5 g/10 min	cm ³ /10min; ISO 1133
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	
	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	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	58	58	15s; ISO 868
	<= 63	<= 63	ISO 868
Tensile Strength at Break	41.0 MPa	5950 psi	ISO 527-1/-2
Tensile Stress	12.0 MPa	1740 psi	ISO 527-1/-2
	@Strain 5.00 %	@Strain 5.00 %	
	15.0 MPa	2180 psi	ISO 527-1/-2
	@Strain 10.0 %	@Strain 10.0 %	
	4.36 MPa	632 psi	TPE; ISO 11403-1 -2
	@Strain 7.48 %, Temperature 150 °C	@Strain 7.48 %, Temperature 302 °F	
	5.56 MPa	806 psi	TPE; ISO 11403-1 -2
	@Strain 7.10 %, Temperature 120 °C	@Strain 7.10 %, Temperature 248 °F	
	5.70 MPa	827 psi	TPE; ISO 11403-1 -2
	@Strain 17.16 %, Temperature 150 °C	@Strain 17.16 %, Temperature 302 °F	
	5.83 MPa	846 psi	TPE; ISO 11403-1 -2
	@Strain 47.08 %, Temperature 150 °C	@Strain 47.08 %, Temperature 302 °F	
	5.86 MPa	850 psi	TPE; ISO 11403-1 -2
	@Strain 60.28 %, Temperature 150 °C	@Strain 60.28 %, Temperature 302 °F	
	5.92 MPa	859 psi	TPE; ISO 11403-1 -2
	@Strain 73.48 %, Temperature 150 °C	@Strain 73.48 %, Temperature 302 °F	
	5.93 MPa	860 psi	TPE; ISO 11403-1 -2

Mechanical Properties	Metric @Strain 37.4 %, Temperature 150 °C	English @Strain 37.4 %, Temperature 302 °F	Comments
	5.96 MPa	864 psi	
	@Strain 86.68 %, Temperature 150 °C	@Strain 86.68 %, Temperature 302 °F	TPE; ISO 11403-1 -2
	5.99 MPa	869 psi	
	@Strain 26.84 %, Temperature 150 °C	@Strain 26.84 %, Temperature 302 °F	TPE; ISO 11403-1 -2
	6.01 MPa	872 psi	
	@Strain 100.76 %, Temperature 150 °C	@Strain 100.76 %, Temperature 302 °F	TPE; ISO 11403-1 -2
	6.03 MPa	875 psi	
	@Strain 120.12 %, Temperature 150 °C	@Strain 120.12 %, Temperature 302 °F	TPE; ISO 11403-1 -2
	6.12 MPa	888 psi	
	@Strain 134.2 %, Temperature 150 °C	@Strain 134.2 %, Temperature 302 °F	TPE; ISO 11403-1 -2
	6.27 MPa	909 psi	
	@Strain 150.04 %, Temperature 150 °C	@Strain 150.04 %, Temperature 302 °F	TPE; ISO 11403-1 -2
	6.35 MPa	921 psi	
	@Strain 7.08 %, Temperature 100 °C	@Strain 7.08 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	6.98 MPa	1010 psi	
	@Strain 7.03 %, Temperature 90.0 °C	@Strain 7.03 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	7.64 MPa	1110 psi	
	@Strain 17.13 %, Temperature 120 °C	@Strain 17.13 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	7.98 MPa	1160 psi	
	@Strain 60.59 %, Temperature 120 °C	@Strain 60.59 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	7.99 MPa	1160 psi	
	@Strain 47.22 %, Temperature 120 °C	@Strain 47.22 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	8.04 MPa	1170 psi	
	@Strain 37.19 %, Temperature 120 °C	@Strain 37.19 %, Temperature 248 °F	TPE; ISO 11403-1 -2

Mechanical Properties	8.08 MPa Metric	1170 psi English	Comments TPE; ISO 11403-1 -2
	@Strain 73.96 %, Temperature 120 °C	@Strain 73.96 %, Temperature 248 °F	
	8.11 MPa	1180 psi	
	@Strain 27.16 %, Temperature 120 °C	@Strain 27.16 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	8.13 MPa	1180 psi	
	@Strain 87.33 %, Temperature 120 °C	@Strain 87.33 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	8.19 MPa	1190 psi	
	@Strain 100.7 %, Temperature 120 °C	@Strain 100.7 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	8.31 MPa	1210 psi	
	@Strain 120.76 %, Temperature 120 °C	@Strain 120.76 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	8.41 MPa	1220 psi	
	@Strain 134.13 %, Temperature 120 °C	@Strain 134.13 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	8.53 MPa	1240 psi	
	@Strain 150.01 %, Temperature 120 °C	@Strain 150.01 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	8.78 MPa	1270 psi	
	@Strain 17.08 %, Temperature 100 °C	@Strain 17.08 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	9.20 MPa	1330 psi	
	@Strain 47.92 %, Temperature 100 °C	@Strain 47.92 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	9.22 MPa	1340 psi	
	@Strain 61.25 %, Temperature 100 °C	@Strain 61.25 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	9.29 MPa	1350 psi	
	@Strain 7.83 %, Temperature 60.0 °C	@Strain 7.83 %, Temperature 140 °F	TPE; ISO 11403-1 -2
	9.34 MPa	1350 psi	
	@Strain 37.92 %, Temperature 100 °C	@Strain 37.92 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	9.35 MPa	1360 psi	
	@Strain 27.92 %,	@Strain 27.92 %,	TPE; ISO 11403-1 -2

Mechanical Properties	Temperature 100 °C	Temperature 212 °F	Comments
	Metric 9.35 MPa	English 1350 psi	
	@Strain 75.42 %, Temperature 100 °C	@Strain 75.42 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	9.44 MPa	1370 psi	
	@Strain 88.76 %, Temperature 100 °C	@Strain 88.76 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	9.52 MPa	1380 psi	
	@Strain 102.09 %, Temperature 100 °C	@Strain 102.09 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	9.67 MPa	1400 psi	
	@Strain 122.92 %, Temperature 100 °C	@Strain 122.92 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	9.74 MPa	1410 psi	
	@Strain 17.77 %, Temperature 90.0 °C	@Strain 17.77 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	9.79 MPa	1420 psi	
	@Strain 136.26 %, Temperature 100 °C	@Strain 136.26 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	9.92 MPa	1440 psi	
	@Strain 48.35 %, Temperature 90.0 °C	@Strain 48.35 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	9.96 MPa	1440 psi	
	@Strain 61.58 %, Temperature 90.0 °C	@Strain 61.58 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	10.07 MPa	1461 psi	
	@Strain 74.8 %, Temperature 90.0 °C	@Strain 74.8 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	10.14 MPa	1471 psi	
	@Strain 37.61 %, Temperature 90.0 °C	@Strain 37.61 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	10.17 MPa	1475 psi	
	@Strain 88.85 %, Temperature 90.0 °C	@Strain 88.85 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	10.21 MPa	1481 psi	
	@Strain 27.69 %, Temperature 90.0 °C	@Strain 27.69 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	10.26 MPa	1488 psi	

Mechanical Properties	Metric @Strain 102.08 %, Temperature 90.0 °C	English @Strain 102.08 %, Temperature 194 °F	TPE; ISO 11403-1 -2 Comments
	10.39 MPa	1507 psi	
	@Strain 122.74 %, Temperature 90.0 °C	@Strain 122.74 %, Temperature 194 °F	TPE; ISO 11403-1 -2

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