

DuPont Performance Polymers Hytrel® 5556 Polyester Elastomer TPC-ET (Unverified Data**)

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

Material Notes:

55 Shore D High Performance Polyester Elastomer Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Hytrel-5556-Polyester-Elastomer-TPC-ET-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in ³	
	1.19 g/cc	0.0430 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	
Water Absorption at Saturation	0.60 %	0.60 %	Immersion 24h; ASTM D570
Viscosity	81295 cP	81295 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 240 °C	@Shear Rate 5000 1/s, Temperature 464 °F	
	88320 cP	88320 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 230 °C	@Shear Rate 5000 1/s, Temperature 446 °F	
	96440 cP	96440 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 220 °C	@Shear Rate 5000 1/s, Temperature 428 °F	
	321800 cP	321800 cP	ISO 11403-1 -2
@Shear Rate 500 1/s, Temperature 240 °C	@Shear Rate 500 1/s, Temperature 464 °F		
358400 cP	358400 cP	ISO 11403-1 -2	
@Shear Rate 500 1/s, Temperature 230 °C	@Shear Rate 500 1/s, Temperature 446 °F		
400200 cP	400200 cP	ISO 11403-1 -2	
@Shear Rate 500 1/s, Temperature 220 °C	@Shear Rate 500 1/s, Temperature 428 °F		
Linear Mold Shrinkage, Flow	0.014 cm/cm	0.014 in/in	ISO 294-4 2577

Linear Mold Shrinkage, Transverse Physical Properties	0.014 cm/cm Metric	0.014 in/in English	ISO 294-4 2577 Comments
Melt Flow	7.0 g/10 min	7.0 g/10 min	cm ³ /10min; ISO 1133
	@Load 2.16 kg, Temperature 220 °C	@Load 4.76 lb, Temperature 428 °F	
	7.8 g/10 min	7.8 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 220 °C	@Load 4.76 lb, Temperature 428 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	51	51	15s; ISO 868
	<= 55	<= 55	ISO 868
Tensile Strength at Break	40.0 MPa	5800 psi	ISO 527-1/-2
Tensile Stress	6.90 MPa	1000 psi	ISO 527-1/-2
	@Strain 5.00 %	@Strain 5.00 %	
	11.0 MPa	1600 psi	ISO 527-1/-2
	@Strain 10.0 %	@Strain 10.0 %	
	14.5 MPa	2100 psi	ISO 527-1/-2
	@Strain 50.0 %	@Strain 50.0 %	
	16.0 MPa	2320 psi	ISO 527-1/-2
	@Strain 100 %	@Strain 100 %	
	3.97 MPa	576 psi	TPE; ISO 11403-1 -2
	@Strain 6.94 %, Temperature 120 °C	@Strain 6.94 %, Temperature 248 °F	
	4.65 MPa	674 psi	TPE; ISO 11403-1 -2
	@Strain 6.90 %, Temperature 100 °C	@Strain 6.90 %, Temperature 212 °F	
	4.93 MPa	715 psi	ISO 11403-1 -2
	@Strain 6.00 %, Temperature 90.0 °C	@Strain 6.00 %, Temperature 194 °F	
	4.97 MPa	721 psi	TPE; ISO 11403-1 -2
	@Strain 6.87 %, Temperature 90.0 °C	@Strain 6.87 %, Temperature 194 °F	
	5.78 MPa	838 psi	TPE; ISO 11403-1 -2
	@Strain 16.44 %, Temperature 120 °C	@Strain 16.44 %, Temperature 248 °F	

Mechanical Properties	Metric	English	Comments
	@Strain 26.67 %, Temperature 120 °C	@Strain 26.67 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	6.55 MPa	950 psi	
	@Strain 36.16 %, Temperature 120 °C	@Strain 36.16 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	6.62 MPa	960 psi	
	@Strain 46.39 %, Temperature 120 °C	@Strain 46.39 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	6.70 MPa	972 psi	
	@Strain 58.81 %, Temperature 120 °C	@Strain 58.81 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	6.83 MPa	991 psi	
	@Strain 71.96 %, Temperature 120 °C	@Strain 71.96 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	6.84 MPa	992 psi	
	@Strain 7.55 %, Temperature 60.0 °C	@Strain 7.55 %, Temperature 140 °F	TPE; ISO 11403-1 -2
	6.97 MPa	1010 psi	
	@Strain 85.11 %, Temperature 120 °C	@Strain 85.11 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	6.98 MPa	1010 psi	
	@Strain 17.06 %, Temperature 100 °C	@Strain 17.06 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	7.12 MPa	1030 psi	
	@Strain 98.26 %, Temperature 120 °C	@Strain 98.26 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	7.41 MPa	1070 psi	
	@Strain 117.99 %, Temperature 120 °C	@Strain 117.99 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	7.46 MPa	1080 psi	
	@Strain 6.00 %, Temperature 40.0 °C	@Strain 6.00 %, Temperature 104 °F	ISO 11403-1 -2
	7.51 MPa	1090 psi	
	@Strain 16.99 %, Temperature 90.0 °C	@Strain 16.99 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	7.67 MPa	1110 psi	
	@Strain 27.23 %,	@Strain 27.23 %,	TPE; ISO 11403-1 -2

Mechanical Properties	Temperature 100 °C Metric	Temperature 212 °F English	Comments
	7.67 MPa @Strain 131.14 %, Temperature 120 °C	1110 psi @Strain 131.14 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	7.88 MPa @Strain 37.39 %, Temperature 100 °C	1140 psi @Strain 37.39 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	7.90 MPa @Strain 6.00 %, Temperature 23.0 °C	1150 psi @Strain 6.00 %, Temperature 73.4 °F	ISO 11403-1 -2
	7.96 MPa @Strain 46.83 %, Temperature 100 °C	1150 psi @Strain 46.83 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	8.04 MPa @Strain 60.62 %, Temperature 100 °C	1170 psi @Strain 60.62 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	8.07 MPa @Strain 147.21 %, Temperature 120 °C	1170 psi @Strain 147.21 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	8.17 MPa @Strain 73.69 %, Temperature 100 °C	1180 psi @Strain 73.69 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	8.30 MPa @Strain 27.11 %, Temperature 90.0 °C	1200 psi @Strain 27.11 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	8.32 MPa @Strain 86.76 %, Temperature 100 °C	1210 psi @Strain 86.76 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	8.52 MPa @Strain 100.56 %, Temperature 100 °C	1240 psi @Strain 100.56 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	8.52 MPa @Strain 24.0 %, Temperature 90.0 °C	1240 psi @Strain 24.0 %, Temperature 194 °F	ISO 11403-1 -2
	8.56 MPa @Strain 37.24 %, Temperature 90.0 °C	1240 psi @Strain 37.24 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	8.65 MPa	1250 psi	

Mechanical Properties	Metric	English	Comments
	@Strain 47.36 %, Temperature 90.0 °C	@Strain 47.36 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	8.67 MPa	1260 psi	
	@Strain 7.52 %, Temperature 40.0 °C	@Strain 7.52 %, Temperature 104 °F	TPE; ISO 11403-1 -2
	8.76 MPa	1270 psi	
	@Strain 170.59 %, Temperature 120 °C	@Strain 170.59 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	8.78 MPa	1270 psi	
	@Strain 60.37 %, Temperature 90.0 °C	@Strain 60.37 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	8.85 MPa	1280 psi	
	@Strain 120.16 %, Temperature 100 °C	@Strain 120.16 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	8.94 MPa	1300 psi	
	@Strain 73.39 %, Temperature 90.0 °C	@Strain 73.39 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	9.14 MPa	1330 psi	
	@Strain 87.12 %, Temperature 90.0 °C	@Strain 87.12 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	9.17 MPa	1330 psi	
	@Strain 133.96 %, Temperature 100 °C	@Strain 133.96 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	9.33 MPa	1350 psi	
	@Strain 100.14 %, Temperature 90.0 °C	@Strain 100.14 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	9.60 MPa	1390 psi	
	@Strain 196.16 %, Temperature 120 °C	@Strain 196.16 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	9.61 MPa	1390 psi	
	@Strain 150.65 %, Temperature 100 °C	@Strain 150.65 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	9.71 MPa	1410 psi	
	@Strain 120.38 %, Temperature 90.0 °C	@Strain 120.38 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	9.82 MPa	1420 psi	
	@Strain 17.63 %, Temperature 60.0 °C	@Strain 17.63 %, Temperature 140 °F	TPE; ISO 11403-1 -2

Mechanical Properties	Metric MPa	English	Comments
	@Strain 133.4 %, Temperature 90.0 °C	@Strain 133.4 %, Temperature 194 °F	TPE; ISO 11403-1 -2

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