

DuPont Performance Polymers Hytrel® G5544 Polyester Elastomer TPC-ET (Unverified Data**)

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

Material Notes:

55 Shore D Standard Performance Polyester Elastomer with Heat Ageing ProtectionHytrel G5544 is a medium modulus grade with nominal hardness of 55D. It contains discoloring stabilizer. It can be processed by many conventional thermoplastic processing teInformation provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Hytrel-G5544-Polyester-Elastomer-TPC-ET-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	
	1.22 g/cc	0.0441 lb/in ³	ISO 1183
Water Absorption	2.2 %	2.2 %	
	@Thickness 2.00 mm	@Thickness 0.0787 in	Sim. to ISO 62
Moisture Absorption	0.400 %	0.400 %	
	@Thickness 2.00 mm	@Thickness 0.0787 in	Sim. to ISO 62
Water Absorption at Saturation	1.6 %	1.6 %	Immersion 24h; ASTM D570
Viscosity	56910 cP	56910 cP	
	@Shear Rate 5000 1/s, Temperature 255 °C	@Shear Rate 5000 1/s, Temperature 491 °F	ISO 11403-1 -2
	61310 cP	61310 cP	
	@Shear Rate 5000 1/s, Temperature 245 °C	@Shear Rate 5000 1/s, Temperature 473 °F	ISO 11403-1 -2
	69010 cP	69010 cP	
	@Shear Rate 5000 1/s, Temperature 230 °C	@Shear Rate 5000 1/s, Temperature 446 °F	ISO 11403-1 -2
	202800 cP	202800 cP	
	@Shear Rate 500 1/s, Temperature 255 °C	@Shear Rate 500 1/s, Temperature 491 °F	ISO 11403-1 -2
	227840 cP	227840 cP	
	@Shear Rate 500 1/s, Temperature 245 °C	@Shear Rate 500 1/s, Temperature 473 °F	ISO 11403-1 -2
	271700 cP	271700 cP	
	@Shear Rate 500 1/s,	@Shear Rate 500 1/s,	ISO 11403-1 -2

Physical Properties	Metric Temperature 230 °C	English Temperature 446 °F	Comments
Linear Mold Shrinkage, Flow	0.016 cm/cm	0.016 in/in	ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.016 cm/cm	0.016 in/in	ISO 294-4 2577
Melt Flow	10 g/10 min	10 g/10 min	cm³/10min; ISO 1133
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	
	10 g/10 min	10 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	51	51	15s; ISO 868
	<= 56	<= 56	ISO 868
Tensile Strength at Break	33.0 MPa	4790 psi	ISO 527-1/-2
Tensile Stress	8.10 MPa	1170 psi	ISO 527-1/-2
	@Strain 5.00 %	@Strain 5.00 %	
	9.00 MPa	1310 psi	ISO 527-1/-2
	@Strain 50.0 %	@Strain 50.0 %	
	11.7 MPa	1700 psi	ISO 527-1/-2
	@Strain 10.0 %	@Strain 10.0 %	
	4.13 MPa	599 psi	TPE; ISO 11403-1 -2
	@Strain 6.80 %, Temperature 120 °C	@Strain 6.80 %, Temperature 248 °F	
	5.22 MPa	757 psi	TPE; ISO 11403-1 -2
	@Strain 7.50 %, Temperature 100 °C	@Strain 7.50 %, Temperature 212 °F	
	5.35 MPa	776 psi	ISO 11403-1 -2
	@Strain 6.00 %, Temperature 90.0 °C	@Strain 6.00 %, Temperature 194 °F	
	5.46 MPa	792 psi	TPE; ISO 11403-1 -2
	@Strain 7.15 %, Temperature 90.0 °C	@Strain 7.15 %, Temperature 194 °F	
	6.19 MPa	898 psi	TPE; ISO 11403-1 -2
	@Strain 16.83 %, Temperature 120 °C	@Strain 16.83 %, Temperature 248 °F	

Mechanical Properties	MetricPa	English	Comments
	@Strain 7.36 %, Temperature 60.0 °C	@Strain 7.36 %, Temperature 140 °F	TPE; ISO 11403-1 -2
	6.88 MPa	998 psi	
	@Strain 26.86 %, Temperature 120 °C	@Strain 26.86 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	7.16 MPa	1040 psi	
	@Strain 36.88 %, Temperature 120 °C	@Strain 36.88 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	7.31 MPa	1060 psi	
	@Strain 46.91 %, Temperature 120 °C	@Strain 46.91 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	7.44 MPa	1080 psi	
	@Strain 60.51 %, Temperature 120 °C	@Strain 60.51 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	7.53 MPa	1090 psi	
	@Strain 17.5 %, Temperature 100 °C	@Strain 17.5 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	7.57 MPa	1100 psi	
	@Strain 73.4 %, Temperature 120 °C	@Strain 73.4 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	7.73 MPa	1120 psi	
	@Strain 87.01 %, Temperature 120 °C	@Strain 87.01 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	7.90 MPa	1150 psi	
	@Strain 6.00 %, Temperature 40.0 °C	@Strain 6.00 %, Temperature 104 °F	ISO 11403-1 -2
	7.94 MPa	1150 psi	
	@Strain 100.62 %, Temperature 120 °C	@Strain 100.62 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	8.12 MPa	1180 psi	
	@Strain 17.37 %, Temperature 90.0 °C	@Strain 17.37 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	8.29 MPa	1200 psi	
	@Strain 120.67 %, Temperature 120 °C	@Strain 120.67 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	8.30 MPa	1200 psi	
			TPE; ISO 11403-1 -2

Mechanical Properties	Metric @Strain 27.5 %, Temperature 100 °C	English @Strain 27.5 %, Temperature 212 °F	Comments
	8.45 MPa	1230 psi	
	@Strain 6.00 %, Temperature 23.0 °C	@Strain 6.00 %, Temperature 73.4 °F	ISO 11403-1 -2
	8.55 MPa	1240 psi	
	@Strain 133.56 %, Temperature 120 °C	@Strain 133.56 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	8.61 MPa	1250 psi	
	@Strain 37.5 %, Temperature 100 °C	@Strain 37.5 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	8.73 MPa	1270 psi	
	@Strain 7.83 %, Temperature 40.0 °C	@Strain 7.83 %, Temperature 104 °F	TPE; ISO 11403-1 -2
	8.77 MPa	1270 psi	
	@Strain 48.22 %, Temperature 100 °C	@Strain 48.22 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	8.92 MPa	1290 psi	
	@Strain 150.03 %, Temperature 120 °C	@Strain 150.03 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	8.94 MPa	1300 psi	
	@Strain 61.79 %, Temperature 100 °C	@Strain 61.79 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	9.00 MPa	1310 psi	
	@Strain 27.59 %, Temperature 90.0 °C	@Strain 27.59 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	9.12 MPa	1320 psi	
	@Strain 75.36 %, Temperature 100 °C	@Strain 75.36 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	9.15 MPa	1330 psi	
	@Strain 24.0 %, Temperature 90.0 °C	@Strain 24.0 %, Temperature 194 °F	ISO 11403-1 -2
	9.33 MPa	1350 psi	
	@Strain 88.94 %, Temperature 100 °C	@Strain 88.94 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	9.36 MPa	1360 psi	
	@Strain 37.81 %, Temperature 90.0 °C	@Strain 37.81 %, Temperature 194 °F	TPE; ISO 11403-1 -2

Mechanical Properties	9.54 MPa Metric	1380 psi English	Comments TPE; ISO 11403-1 -2
	@Strain 173.66 %, Temperature 120 °C	@Strain 173.66 %, Temperature 248 °F	
	9.57 MPa	1390 psi	
	@Strain 102.51 %, Temperature 100 °C	@Strain 102.51 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	9.57 MPa	1390 psi	
	@Strain 48.04 %, Temperature 90.0 °C	@Strain 48.04 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	9.78 MPa	1420 psi	
	@Strain 61.66 %, Temperature 90.0 °C	@Strain 61.66 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	9.78 MPa	1420 psi	
	@Strain 42.0 %, Temperature 90.0 °C	@Strain 42.0 %, Temperature 194 °F	ISO 11403-1 -2
	9.98 MPa	1450 psi	
	@Strain 122.51 %, Temperature 100 °C	@Strain 122.51 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	10.02 MPa	1453 psi	
	@Strain 75.29 %, Temperature 90.0 °C	@Strain 75.29 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	10.07 MPa	1461 psi	
	@Strain 17.86 %, Temperature 60.0 °C	@Strain 17.86 %, Temperature 140 °F	TPE; ISO 11403-1 -2
	10.26 MPa	1488 psi	
	@Strain 88.92 %, Temperature 90.0 °C	@Strain 88.92 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	10.29 MPa	1492 psi	
	@Strain 136.08 %, Temperature 100 °C	@Strain 136.08 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	10.31 MPa	1495 psi	
	@Strain 200.16 %, Temperature 120 °C	@Strain 200.16 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	10.54 MPa	1529 psi	
	@Strain 102.54 %, Temperature 90.0 °C	@Strain 102.54 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	10.71 MPa	1553 psi	
	@Strain 153.23 %,	@Strain 153.23 %,	TPE; ISO 11403-1 -2

Mechanical Properties	Temperature 100 °C	Temperature 212 °F	Comments
	Metric	English	
	10.74 MPa	1558 psi	
	@Strain 8.21 %, Temperature 23.0 °C	@Strain 8.21 %, Temperature 73.4 °F	TPE; ISO 11403-1 -2

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