

DuPont Performance Polymers Hytrel® DYM350BK TPC-ET+PBT (Unverified Data**)

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polyester Thermoplastic Elastomer

Material Notes:

Medium Modulus Polyester Elastomer with Excellent Impact Resistance Developed for Air Bag Door Applications
Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Hytrel-DYM350BK-TPC-ETPBT-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.00 g/cc	0.0361 lb/in ³	
	1.18 g/cc	0.0426 lb/in ³	ISO 1183
Water Absorption	0.60 %	0.60 %	
	@Thickness 2.00 mm	@Thickness 0.0787 in	Sim. to ISO 62
Moisture Absorption	0.200 %	0.200 %	
	@Thickness 2.00 mm	@Thickness 0.0787 in	Sim. to ISO 62
Water Absorption at Saturation	0.60 %	0.60 %	Immersion 24h; ASTM D570
Linear Mold Shrinkage, Flow	0.013 cm/cm	0.013 in/in	ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.014 cm/cm	0.014 in/in	ISO 294-4 2577
Melt Flow	14 g/10 min	14 g/10 min	
	@Load 2.16 kg, Temperature 240 °C	@Load 4.76 lb, Temperature 464 °F	cm ³ /10min; ISO 1133
	15 g/10 min	15 g/10 min	
	@Load 2.16 kg, Temperature 240 °C	@Load 4.76 lb, Temperature 464 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	50	50	15s; ISO 868
	<= 55	<= 55	ISO 868
Tensile Strength at Break	35.0 MPa	5080 psi	ISO 527-1/-2
Tensile Stress	10.5 MPa	1520 psi	
	@Strain 5.00 %	@Strain 5.00 %	ISO 527-1/-2
	13.0 MPa	1890 psi	
			ISO 527-1/-2

Mechanical Properties	@Strain 10.0 % Metric	@Strain 10.0 % English	Comments
	16.0 MPa	2320 psi	ISO 527-1/-2
	@Strain 50.0 %	@Strain 50.0 %	
	3.65 MPa	529 psi	TPE; ISO 11403-1 -2
	@Strain 7.23 %, Temperature 120 °C	@Strain 7.23 %, Temperature 248 °F	
	3.94 MPa	571 psi	TPE; ISO 11403-1 -2
	@Strain 5.00 %, Temperature 80.0 °C	@Strain 5.00 %, Temperature 176 °F	
	4.64 MPa	673 psi	TPE; ISO 11403-1 -2
	@Strain 7.63 %, Temperature 100 °C	@Strain 7.63 %, Temperature 212 °F	
	5.13 MPa	744 psi	TPE; ISO 11403-1 -2
	@Strain 7.75 %, Temperature 90.0 °C	@Strain 7.75 %, Temperature 194 °F	
	5.38 MPa	780 psi	TPE; ISO 11403-1 -2
	@Strain 18.24 %, Temperature 120 °C	@Strain 18.24 %, Temperature 248 °F	
	5.92 MPa	859 psi	TPE; ISO 11403-1 -2
	@Strain 28.56 %, Temperature 120 °C	@Strain 28.56 %, Temperature 248 °F	
	6.17 MPa	895 psi	TPE; ISO 11403-1 -2
	@Strain 38.88 %, Temperature 120 °C	@Strain 38.88 %, Temperature 248 °F	
	6.32 MPa	917 psi	TPE; ISO 11403-1 -2
	@Strain 49.89 %, Temperature 120 °C	@Strain 49.89 %, Temperature 248 °F	
	6.46 MPa	937 psi	TPE; ISO 11403-1 -2
	@Strain 63.66 %, Temperature 120 °C	@Strain 63.66 %, Temperature 248 °F	
	6.61 MPa	959 psi	TPE; ISO 11403-1 -2
	@Strain 78.11 %, Temperature 120 °C	@Strain 78.11 %, Temperature 248 °F	
	6.66 MPa	966 psi	TPE; ISO 11403-1 -2
	@Strain 18.26 %, Temperature 100 °C	@Strain 18.26 %, Temperature 212 °F	
	6.75 MPa	979 psi	TPE; ISO 11403-1 -2

Mechanical Properties	Metric @Strain 91.87 %, Temperature 120 °C	English @Strain 91.87 %, Temperature 248 °F	Comments
	6.92 MPa	1000 psi	
	@Strain 106.32 %, Temperature 120 °C	@Strain 106.32 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	7.19 MPa	1040 psi	
	@Strain 127.66 %, Temperature 120 °C	@Strain 127.66 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	7.30 MPa	1060 psi	
	@Strain 15.0 %, Temperature 80.0 °C	@Strain 15.0 %, Temperature 176 °F	TPE; ISO 11403-1 -2
	7.32 MPa	1060 psi	
	@Strain 28.88 %, Temperature 100 °C	@Strain 28.88 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	7.37 MPa	1070 psi	
	@Strain 18.54 %, Temperature 90.0 °C	@Strain 18.54 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	7.38 MPa	1070 psi	
	@Strain 7.86 %, Temperature 60.0 °C	@Strain 7.86 %, Temperature 140 °F	TPE; ISO 11403-1 -2
	7.41 MPa	1070 psi	
	@Strain 141.42 %, Temperature 120 °C	@Strain 141.42 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	7.61 MPa	1100 psi	
	@Strain 40.16 %, Temperature 100 °C	@Strain 40.16 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	7.71 MPa	1120 psi	
	@Strain 159.31 %, Temperature 120 °C	@Strain 159.31 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	7.77 MPa	1130 psi	
	@Strain 50.78 %, Temperature 100 °C	@Strain 50.78 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	7.93 MPa	1150 psi	
	@Strain 65.39 %, Temperature 100 °C	@Strain 65.39 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	8.07 MPa	1170 psi	
	@Strain 29.33 %, Temperature 90.0 °C	@Strain 29.33 %, Temperature 194 °F	TPE; ISO 11403-1 -2

Mechanical Properties	8.09 MPa Metric	1170 psi English	Comments
	@Strain 79.33 %, Temperature 100 °C	@Strain 79.33 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	8.21 MPa	1190 psi	
	@Strain 184.09 %, Temperature 120 °C	@Strain 184.09 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	8.26 MPa	1200 psi	
	@Strain 93.93 %, Temperature 100 °C	@Strain 93.93 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	8.36 MPa	1210 psi	
	@Strain 40.11 %, Temperature 90.0 °C	@Strain 40.11 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	8.45 MPa	1230 psi	
	@Strain 108.54 %, Temperature 100 °C	@Strain 108.54 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	8.50 MPa	1230 psi	
	@Strain 5.00 %, Temperature 23.0 °C	@Strain 5.00 %, Temperature 73.4 °F	ISO 11403-1 -2
	8.53 MPa	1240 psi	
	@Strain 50.9 %, Temperature 90.0 °C	@Strain 50.9 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	8.64 MPa	1250 psi	
	@Strain 30.0 %, Temperature 80.0 °C	@Strain 30.0 %, Temperature 176 °F	TPE; ISO 11403-1 -2
	8.64 MPa	1250 psi	
	@Strain 5.00 %, Temperature 0.000 °C	@Strain 5.00 %, Temperature 32.0 °F	ISO 11403-1 -2
	8.70 MPa	1260 psi	
	@Strain 65.06 %, Temperature 90.0 °C	@Strain 65.06 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	8.76 MPa	1270 psi	
	@Strain 129.78 %, Temperature 100 °C	@Strain 129.78 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	8.86 MPa	1290 psi	
	@Strain 212.3 %, Temperature 120 °C	@Strain 212.3 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	8.86 MPa	1290 psi	
	@Strain 79.22 %,	@Strain 79.22 %,	TPE; ISO 11403-1 -2

Mechanical Properties	Temperature 90.0 °C Metric	Temperature 194 °F English	Comments
	9.01 MPa	1310 psi	
	@Strain 144.39 %, Temperature 100 °C	@Strain 144.39 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	9.07 MPa	1320 psi	
	@Strain 94.05 %, Temperature 90.0 °C	@Strain 94.05 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	9.20 MPa	1330 psi	
	@Strain 45.0 %, Temperature 80.0 °C	@Strain 45.0 %, Temperature 176 °F	TPE; ISO 11403-1 -2
	9.24 MPa	1340 psi	
	@Strain 108.21 %, Temperature 90.0 °C	@Strain 108.21 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	9.36 MPa	1360 psi	
	@Strain 162.31 %, Temperature 100 °C	@Strain 162.31 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	9.57 MPa	1390 psi	
	@Strain 8.12 %, Temperature 40.0 °C	@Strain 8.12 %, Temperature 104 °F	TPE; ISO 11403-1 -2
	9.59 MPa	1390 psi	
	@Strain 129.78 %, Temperature 90.0 °C	@Strain 129.78 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	9.73 MPa	1410 psi	
	@Strain 247.4 %, Temperature 120 °C	@Strain 247.4 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	9.85 MPa	1430 psi	
	@Strain 144.61 %, Temperature 90.0 °C	@Strain 144.61 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	9.91 MPa	1440 psi	
	@Strain 187.53 %, Temperature 100 °C	@Strain 187.53 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	10.12 MPa	1468 psi	
	@Strain 18.8 %, Temperature 60.0 °C	@Strain 18.8 %, Temperature 140 °F	TPE; ISO 11403-1 -2
	10.19 MPa	1478 psi	
	@Strain 162.14 %, Temperature 90.0 °C	@Strain 162.14 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	10.61 MPa	1539 psi	

Mechanical Properties	Metric	English	TPE; ISO 11403-1 -2 Comments
	@Strain 216.08 %, Temperature 100 °C	@Strain 216.08 %, Temperature 212 °F	
	10.76 MPa	1561 psi	
	@Strain 187.76 %, Temperature 90.0 °C	@Strain 187.76 %, Temperature 194 °F	TPE; ISO 11403-1 -2

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