

DuPont Performance Polymers Hytrel® 3078 Polyester Elastomer TPC-ET (Unverified Data**)

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

Material Notes:

30 Shore D High Performance Polyester Elastomer with Non-discoloring Stabilizer Hytrel 3078 is a very low modulus grade with nominal hardness of 30D. It contains non-discoloring stabilizer. It can be processed by many conventional thermoplastic processInformation provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Hytrel-3078-Polyester-Elastomer-TPC-ET-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	0.940 g/cc	0.0340 lb/in ³	
	1.07 g/cc	0.0387 lb/in ³	ISO 1183
Water Absorption	0.80 %	0.80 %	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	0.50 %	0.50 %	Immersion 24h; ASTM D570
Viscosity	80430 cP	80430 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 215 °C	@Shear Rate 5000 1/s, Temperature 419 °F	
	84630 cP	84630 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 205 °C	@Shear Rate 5000 1/s, Temperature 401 °F	
	91640 cP	91640 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 190 °C	@Shear Rate 5000 1/s, Temperature 374 °F	
309800 cP	309800 cP	ISO 11403-1 -2	
@Shear Rate 500 1/s, Temperature 215 °C	@Shear Rate 500 1/s, Temperature 419 °F		
340200 cP	@Shear Rate 500 1/s, Temperature 205 °C	@Shear Rate 500 1/s, Temperature 401 °F	ISO 11403-1 -2
	391600 cP	391600 cP	
@Shear Rate 500 1/s, Temperature 190 °C	@Shear Rate 500 1/s, Temperature 374 °F		

Physical Properties	Metric	English	Comments
	@Shear Rate 10.0 1/s, Temperature 215 °C	@Shear Rate 10.0 1/s, Temperature 419 °F	ISO 11403-1 -2
	670400 cP	670400 cP	
	@Shear Rate 10.0 1/s, Temperature 205 °C	@Shear Rate 10.0 1/s, Temperature 401 °F	ISO 11403-1 -2
	871300 cP	871300 cP	
	@Shear Rate 10.0 1/s, Temperature 190 °C	@Shear Rate 10.0 1/s, Temperature 374 °F	ISO 11403-1 -2
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	ISO 294-4 2577
Melt Flow	5.0 g/10 min	5.0 g/10 min	cm ³ /10min; ISO 1133
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	5.0 g/10 min	5.0 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	26	26	15s; ISO 868
	<= 30	<= 30	ISO 868
Tensile Strength at Break	24.0 MPa	3480 psi	ISO 527-1/-2
Tensile Stress	1.80 MPa	261 psi	ISO 527-1/-2
	@Strain 10.0 %	@Strain 10.0 %	
	5.00 MPa	725 psi	ISO 527-1/-2
	@Strain 50.0 %	@Strain 50.0 %	
	0.620 MPa	89.9 psi	TPE; ISO 11403-1 -2
	@Strain 7.80 %, Temperature 120 °C	@Strain 7.80 %, Temperature 248 °F	
	0.890 MPa	129 psi	TPE; ISO 11403-1 -2
	@Strain 7.88 %, Temperature 100 °C	@Strain 7.88 %, Temperature 212 °F	
	0.960 MPa	139 psi	TPE; ISO 11403-1 -2
	@Strain 18.94 %, Temperature 120 °C	@Strain 18.94 %, Temperature 248 °F	

Mechanical Properties	Metric	English	Comments
	1.04 MPa @Strain 7.84 %, Temperature 90.0 °C	151 psi @Strain 7.84 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	1.13 MPa @Strain 30.07 %, Temperature 120 °C	164 psi @Strain 30.07 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	1.24 MPa @Strain 41.21 %, Temperature 120 °C	180 psi @Strain 41.21 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	1.27 MPa @Strain 7.29 %, Temperature 60.0 °C	184 psi @Strain 7.29 %, Temperature 140 °F	TPE; ISO 11403-1 -2
	1.31 MPa @Strain 52.35 %, Temperature 120 °C	190 psi @Strain 52.35 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	1.36 MPa @Strain 6.64 %, Temperature 40.0 °C	197 psi @Strain 6.64 %, Temperature 104 °F	TPE; ISO 11403-1 -2
	1.37 MPa @Strain 5.71 %, Temperature 0.000 °C	199 psi @Strain 5.71 %, Temperature 32.0 °F	TPE; ISO 11403-1 -2
	1.37 MPa @Strain 67.2 %, Temperature 120 °C	199 psi @Strain 67.2 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	1.40 MPa @Strain 82.8 %, Temperature 120 °C	203 psi @Strain 82.8 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	1.40 MPa @Strain 149.63 %, Temperature 120 °C	203 psi @Strain 149.63 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	1.40 MPa @Strain 168.19 %, Temperature 120 °C	203 psi @Strain 168.19 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	1.41 MPa @Strain 19.13 %, Temperature 100 °C	205 psi @Strain 19.13 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	1.42 MPa @Strain 134.78 %,	206 psi @Strain 134.78 %,	TPE; ISO 11403-1 -2

Mechanical Properties	Temperature 120 °C Metric	Temperature 248 °F English	Comments
	1.45 MPa @Strain 97.65 %, Temperature 120 °C	210 psi @Strain 97.65 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	1.45 MPa @Strain 112.5 %, Temperature 120 °C	210 psi @Strain 112.5 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	1.64 MPa @Strain 18.07 %, Temperature 90.0 °C	238 psi @Strain 18.07 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	1.68 MPa @Strain 30.38 %, Temperature 100 °C	244 psi @Strain 30.38 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	1.74 MPa @Strain 8.52 %, Temperature 23.0 °C	252 psi @Strain 8.52 %, Temperature 73.4 °F	TPE; ISO 11403-1 -2
	1.80 MPa @Strain 10.0 %, Temperature 23.0 °C	261 psi @Strain 10.0 %, Temperature 73.4 °F	ISO 11403-1 -2
	1.83 MPa @Strain 41.63 %, Temperature 100 °C	265 psi @Strain 41.63 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	1.94 MPa @Strain 52.88 %, Temperature 100 °C	281 psi @Strain 52.88 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	1.98 MPa @Strain 28.98 %, Temperature 90.0 °C	287 psi @Strain 28.98 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	2.03 MPa @Strain 67.88 %, Temperature 100 °C	294 psi @Strain 67.88 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	2.08 MPa @Strain 17.02 %, Temperature 60.0 °C	302 psi @Strain 17.02 %, Temperature 140 °F	TPE; ISO 11403-1 -2
	2.09 MPa @Strain 82.14 %, Temperature 100 °C	303 psi @Strain 82.14 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	2.14 MPa	310 psi	

Mechanical Properties	Metric	English	Comments
	@Strain 97.14 %, Temperature 100 °C	@Strain 97.14 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	2.18 MPa	316 psi	TPE; ISO 11403-1 -2
	@Strain 112.14 %, Temperature 100 °C	@Strain 112.14 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	2.18 MPa	316 psi	TPE; ISO 11403-1 -2
	@Strain 39.89 %, Temperature 90.0 °C	@Strain 39.89 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	2.25 MPa	326 psi	TPE; ISO 11403-1 -2
	@Strain 134.64 %, Temperature 100 °C	@Strain 134.64 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	2.28 MPa	331 psi	TPE; ISO 11403-1 -2
	@Strain 149.65 %, Temperature 100 °C	@Strain 149.65 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	2.32 MPa	336 psi	TPE; ISO 11403-1 -2
	@Strain 168.4 %, Temperature 100 °C	@Strain 168.4 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	2.33 MPa	338 psi	TPE; ISO 11403-1 -2
	@Strain 50.8 %, Temperature 90.0 °C	@Strain 50.8 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	2.34 MPa	339 psi	TPE; ISO 11403-1 -2
	@Strain 16.44 %, Temperature 40.0 °C	@Strain 16.44 %, Temperature 104 °F	TPE; ISO 11403-1 -2
	2.41 MPa	350 psi	TPE; ISO 11403-1 -2
	@Strain 65.12 %, Temperature 90.0 °C	@Strain 65.12 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	2.43 MPa	352 psi	TPE; ISO 11403-1 -2
	@Strain 13.11 %, Temperature 0.000 °C	@Strain 13.11 %, Temperature 32.0 °F	TPE; ISO 11403-1 -2
	2.49 MPa	361 psi	TPE; ISO 11403-1 -2
	@Strain 79.43 %, Temperature 90.0 °C	@Strain 79.43 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	2.55 MPa	370 psi	TPE; ISO 11403-1 -2
	@Strain 93.75 %, Temperature 90.0 °C	@Strain 93.75 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	2.55 MPa	370 psi	TPE; ISO 11403-1 -2
	@Strain 26.74 %, Temperature 60.0 °C	@Strain 26.74 %, Temperature 140 °F	TPE; ISO 11403-1 -2

Mechanical Properties	Metric P_0	English	Comments
	@Strain 5.25 %, Temperature -20.0 °C	@Strain 5.25 %, Temperature -4.00 °F	TPE; ISO 11403-1 -2

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