

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

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

Material Notes:

30 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-3078FG-Polyester-Elastomer-TPC-ET-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	ISO 1183
Water Absorption	0.80 % @Thickness 2.00 mm	0.80 % @Thickness 0.0787 in	Sim. to ISO 62
Moisture Absorption	0.200 % @Thickness 2.00 mm	0.200 % @Thickness 0.0787 in	Sim. to ISO 62
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 @Load 2.16 kg, Temperature 190 °C	5.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133
	5.3 g/10 min @Load 2.16 kg, Temperature 190 °C	5.3 g/10 min @Load 4.76 lb, Temperature 374 °F	cm ³ /10min; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	26	26	15s; ISO 868
	<= 30	<= 30	ISO 868
Tensile Strength at Break	23.0 MPa	3340 psi	ISO 527-1/-2
Tensile Stress	1.10 MPa @Strain 10.0 %	160 psi @Strain 10.0 %	ISO 527-1/-2
	4.10 MPa @Strain 50.0 %	595 psi @Strain 50.0 %	ISO 527-1/-2
	0.620 MPa	89.9 psi	

Mechanical Properties	Metric	English	TPE; ISO 11403-1 -2 Comments
	@Strain 7.80 %, Temperature 120 °C	@Strain 7.80 %, Temperature 248 °F	
	0.890 MPa	129 psi	
	@Strain 7.88 %, Temperature 100 °C	@Strain 7.88 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	0.960 MPa	139 psi	
	@Strain 18.94 %, Temperature 120 °C	@Strain 18.94 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	1.04 MPa	151 psi	
	@Strain 7.84 %, Temperature 90.0 °C	@Strain 7.84 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	1.13 MPa	164 psi	
	@Strain 30.07 %, Temperature 120 °C	@Strain 30.07 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	1.24 MPa	180 psi	
	@Strain 41.21 %, Temperature 120 °C	@Strain 41.21 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	1.27 MPa	184 psi	
	@Strain 7.29 %, Temperature 60.0 °C	@Strain 7.29 %, Temperature 140 °F	TPE; ISO 11403-1 -2
	1.31 MPa	190 psi	
	@Strain 52.35 %, Temperature 120 °C	@Strain 52.35 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	1.36 MPa	197 psi	
	@Strain 6.64 %, Temperature 40.0 °C	@Strain 6.64 %, Temperature 104 °F	TPE; ISO 11403-1 -2
	1.37 MPa	199 psi	
	@Strain 5.71 %, Temperature 0.000 °C	@Strain 5.71 %, Temperature 32.0 °F	TPE; ISO 11403-1 -2
	1.37 MPa	199 psi	
	@Strain 67.2 %, Temperature 120 °C	@Strain 67.2 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	1.40 MPa	203 psi	
	@Strain 82.8 %, Temperature 120 °C	@Strain 82.8 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	1.40 MPa	203 psi	
	@Strain 168.19 %, Temperature 120 °C	@Strain 168.19 %, Temperature 248 °F	TPE; ISO 11403-1 -2

Mechanical Properties	MetricPa	English	Comments
	@Strain 149.63 %, Temperature 120 °C	@Strain 149.63 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	1.41 MPa	205 psi	
	@Strain 19.13 %, Temperature 100 °C	@Strain 19.13 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	1.42 MPa	206 psi	
	@Strain 134.78 %, Temperature 120 °C	@Strain 134.78 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	1.45 MPa	210 psi	
	@Strain 97.65 %, Temperature 120 °C	@Strain 97.65 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	1.45 MPa	210 psi	
	@Strain 112.5 %, Temperature 120 °C	@Strain 112.5 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	1.64 MPa	238 psi	
	@Strain 18.07 %, Temperature 90.0 °C	@Strain 18.07 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	1.68 MPa	244 psi	
	@Strain 30.38 %, Temperature 100 °C	@Strain 30.38 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	1.74 MPa	252 psi	
	@Strain 8.52 %, Temperature 23.0 °C	@Strain 8.52 %, Temperature 73.4 °F	TPE; ISO 11403-1 -2
	1.83 MPa	265 psi	
	@Strain 41.63 %, Temperature 100 °C	@Strain 41.63 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	1.94 MPa	281 psi	
	@Strain 52.88 %, Temperature 100 °C	@Strain 52.88 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	1.98 MPa	287 psi	
	@Strain 28.98 %, Temperature 90.0 °C	@Strain 28.98 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	2.03 MPa	294 psi	
	@Strain 67.88 %, Temperature 100 °C	@Strain 67.88 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	2.08 MPa	302 psi	
			TPE; ISO 11403-1 -2

Mechanical Properties	Metric @Strain 17.02 %, Temperature 60.0 °C	English @Strain 17.02 %, Temperature 140 °F	Comments
	2.09 MPa	303 psi	
	@Strain 82.14 %, Temperature 100 °C	@Strain 82.14 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	2.14 MPa	310 psi	
	@Strain 97.14 %, Temperature 100 °C	@Strain 97.14 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	2.18 MPa	316 psi	
	@Strain 112.14 %, Temperature 100 °C	@Strain 112.14 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	2.18 MPa	316 psi	
	@Strain 39.89 %, Temperature 90.0 °C	@Strain 39.89 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	2.25 MPa	326 psi	
	@Strain 134.64 %, Temperature 100 °C	@Strain 134.64 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	2.28 MPa	331 psi	
	@Strain 149.65 %, Temperature 100 °C	@Strain 149.65 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	2.32 MPa	336 psi	
	@Strain 168.4 %, Temperature 100 °C	@Strain 168.4 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	2.33 MPa	338 psi	
	@Strain 50.8 %, Temperature 90.0 °C	@Strain 50.8 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	2.34 MPa	339 psi	
	@Strain 16.44 %, Temperature 40.0 °C	@Strain 16.44 %, Temperature 104 °F	TPE; ISO 11403-1 -2
	2.41 MPa	350 psi	
	@Strain 65.12 %, Temperature 90.0 °C	@Strain 65.12 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	2.43 MPa	352 psi	
	@Strain 13.11 %, Temperature 0.000 °C	@Strain 13.11 %, Temperature 32.0 °F	TPE; ISO 11403-1 -2
	2.49 MPa	361 psi	
	@Strain 79.43 %, Temperature 90.0 °C	@Strain 79.43 %, Temperature 194 °F	TPE; ISO 11403-1 -2

Mechanical Properties	2.55 MPa Metric	370 psi English	Comments TPE; ISO 11403-1 -2
	@Strain 93.75 %, Temperature 90.0 °C	@Strain 93.75 %, Temperature 194 °F	
	2.55 MPa	370 psi	TPE; ISO 11403-1 -2
	@Strain 26.74 %, Temperature 60.0 °C	@Strain 26.74 %, Temperature 140 °F	
	2.59 MPa	376 psi	TPE; ISO 11403-1 -2
	@Strain 5.25 %, Temperature -20.0 °C	@Strain 5.25 %, Temperature -4.00 °F	
	2.60 MPa	377 psi	TPE; ISO 11403-1 -2
	@Strain 108.07 %, Temperature 90.0 °C	@Strain 108.07 %, Temperature 194 °F	
	2.66 MPa	386 psi	TPE; ISO 11403-1 -2
	@Strain 129.89 %, Temperature 90.0 °C	@Strain 129.89 %, Temperature 194 °F	
	2.72 MPa	395 psi	TPE; ISO 11403-1 -2
	@Strain 144.21 %, Temperature 90.0 °C	@Strain 144.21 %, Temperature 194 °F	
	2.78 MPa	403 psi	TPE; ISO 11403-1 -2
	@Strain 162.62 %, Temperature 90.0 °C	@Strain 162.62 %, Temperature 194 °F	
	2.87 MPa	416 psi	TPE; ISO 11403-1 -2
	@Strain 37.16 %, Temperature 60.0 °C	@Strain 37.16 %, Temperature 140 °F	
	2.87 MPa	416 psi	TPE; ISO 11403-1 -2
	@Strain 187.85 %, Temperature 90.0 °C	@Strain 187.85 %, Temperature 194 °F	
	2.89 MPa	419 psi	TPE; ISO 11403-1 -2
	@Strain 20.12 %, Temperature 23.0 °C	@Strain 20.12 %, Temperature 73.4 °F	
	2.91 MPa	422 psi	TPE; ISO 11403-1 -2
	@Strain 26.23 %, Temperature 40.0 °C	@Strain 26.23 %, Temperature 104 °F	
	3.08 MPa	447 psi	TPE; ISO 11403-1 -2
	@Strain 46.89 %, Temperature 60.0 °C	@Strain 46.89 %, Temperature 140 °F	
	3.13 MPa	454 psi	TPE; ISO 11403-1 -2
	@Strain 20.5 %,	@Strain 20.5 %,	

Mechanical Properties	Temperature 0.000 °C	Temperature 32.0 °F	Comments
	Metric	English	
	3.21 MPa	464 psi	
	@Strain 36.02 %, Temperature 40.0 °C	@Strain 36.02 %, Temperature 104 °F	TPE; ISO 11403-1 -2
	3.28 MPa	476 psi	
	@Strain 60.08 %, Temperature 60.0 °C	@Strain 60.08 %, Temperature 140 °F	TPE; ISO 11403-1 -2

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