

DuPont Performance Polymers Hytrel® G4078W TPC-ET (Unverified Data**)

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

Material Notes:

Hytrel® G4078W is a low modulus grade with nominal hardness of 40D. It contains non-discoloring stabilizer. It can be processed by many conventional thermoplastic processing techniques like injection molding and extrusion. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Hytrel-G4078W-TPC-ET-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792
Density	1.18 g/cc	0.0426 lb/in ³	ISO 1183
Water Absorption	0.40 %	0.40 %	Equilibrium 50%RH; ISO 62
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	2.1 %	2.1 %	Immersion 24h; ISO 62
	@Temperature 23.0 °C	@Temperature 73.4 °F	
3.0 %	@Temperature 23.0 °C	@Temperature 73.4 °F	Immersion 24h; ASTM D570
3.7 %	@Temperature 23.0 °C	@Temperature 73.4 °F	Saturation, immersed; ISO 62
Linear Mold Shrinkage	0.0080 cm/cm	0.0080 in/in	Flow; ASTM D955
Linear Mold Shrinkage, Flow	0.0080 cm/cm	0.0080 in/in	ISO 294-4
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ISO 294-4
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Melt Flow	5.3 g/10 min	5.3 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
5.3 g/10 min	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	ISO 1133
Melt Index of Compound	5.0 g/10 min	5.0 g/10 min	cm ³ /10 min; ISO 1133
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

Physical Properties	Metric	English	Comments
Mechanical Properties	Metric	English	Comments
Hardness, Shore D	<= 40	<= 40	ASTM D2240
	<= 40	<= 40	ISO 868
	35 @Time 15.0 sec	35 @Time 0.00417 hour	ISO 868
Tensile Strength at Break	17.0 MPa @Temperature 23.0 °C	2470 psi @Temperature 73.4 °F	ISO 527 (1BA bar)
	17.0 MPa @Temperature 23.0 °C	2470 psi @Temperature 73.4 °F	ASTM D638
Tensile Stress	0.900 MPa @Strain 3.65 %, Temperature 120 °C	131 psi @Strain 3.65 %, Temperature 248 °F	ISO 527
	1.10 MPa @Strain 3.28 %, Temperature 100 °C	160 psi @Strain 3.28 %, Temperature 212 °F	ISO 527
	1.11 MPa @Strain 3.21 %, Temperature 90.0 °C	161 psi @Strain 3.21 %, Temperature 194 °F	ISO 527
	1.33 MPa @Strain 3.19 %, Temperature 60.0 °C	193 psi @Strain 3.19 %, Temperature 140 °F	ISO 527
	1.34 MPa @Strain 6.97 %, Temperature 120 °C	194 psi @Strain 6.97 %, Temperature 248 °F	ISO 527
	1.61 MPa @Strain 9.62 %, Temperature 120 °C	234 psi @Strain 9.62 %, Temperature 248 °F	ISO 527
	1.64 MPa @Strain 3.22 %, Temperature 40.0 °C	238 psi @Strain 3.22 %, Temperature 104 °F	ISO 527
	1.69 MPa @Strain 6.20 %, Temperature 100 °C	245 psi @Strain 6.20 %, Temperature 212 °F	ISO 527
	1.71 MPa	248 psi	ISO 527

Mechanical Properties	@Strain 6.06 %, Metric Temperature 90.0 °C	@Strain 6.06 %, English Temperature 194 °F	Comments
	1.89 MPa	274 psi	
	@Strain 12.94 %, Temperature 120 °C	@Strain 12.94 %, Temperature 248 °F	ISO 527
	2.11 MPa	306 psi	
	@Strain 16.26 %, Temperature 120 °C	@Strain 16.26 %, Temperature 248 °F	ISO 527
	2.11 MPa	306 psi	
	@Strain 3.37 %, Temperature 23.0 °C	@Strain 3.37 %, Temperature 73.4 °F	ISO 527
	2.12 MPa	307 psi	
	@Strain 6.03 %, Temperature 60.0 °C	@Strain 6.03 %, Temperature 140 °F	ISO 527
	2.15 MPa	312 psi	
	@Strain 9.12 %, Temperature 100 °C	@Strain 9.12 %, Temperature 212 °F	ISO 527
	2.20 MPa	319 psi	
	@Strain 8.92 %, Temperature 90.0 °C	@Strain 8.92 %, Temperature 194 °F	ISO 527
	2.29 MPa	332 psi	
	@Strain 19.58 %, Temperature 120 °C	@Strain 19.58 %, Temperature 248 °F	ISO 527
	2.34 MPa	339 psi	
	@Strain 3.31 %, Temperature 0.000 °C	@Strain 3.31 %, Temperature 32.0 °F	ISO 527
	2.44 MPa	354 psi	
	@Strain 22.9 %, Temperature 120 °C	@Strain 22.9 %, Temperature 248 °F	ISO 527
	2.44 MPa	354 psi	
	@Strain 11.31 %, Temperature 100 °C	@Strain 11.31 %, Temperature 212 °F	ISO 527
	2.50 MPa	363 psi	
	@Strain 5.00 %, Temperature 23.0 °C	@Strain 5.00 %, Temperature 73.4 °F	ISO 527 (1BA bar)
	2.56 MPa	371 psi	
	@Strain 26.22 %, Temperature 120 °C	@Strain 26.22 %, Temperature 248 °F	ISO 527

Mechanical Properties	2.59 MPa Metric	376 psi English	Comments ISO 527
	@Strain 8.16 %, Temperature 60.0 °C	@Strain 8.16 %, Temperature 140 °F	
	2.60 MPa	377 psi	
	@Strain 11.77 %, Temperature 90.0 °C	@Strain 11.77 %, Temperature 194 °F	ISO 527
	2.65 MPa	384 psi	
	@Strain 28.87 %, Temperature 120 °C	@Strain 28.87 %, Temperature 248 °F	ISO 527
	2.69 MPa	390 psi	
	@Strain 6.08 %, Temperature 40.0 °C	@Strain 6.08 %, Temperature 104 °F	ISO 527
	2.74 MPa	397 psi	
	@Strain 32.19 %, Temperature 120 °C	@Strain 32.19 %, Temperature 248 °F	ISO 527
	2.75 MPa	399 psi	
	@Strain 14.23 %, Temperature 100 °C	@Strain 14.23 %, Temperature 212 °F	ISO 527
	2.81 MPa	408 psi	
	@Strain 35.51 %, Temperature 120 °C	@Strain 35.51 %, Temperature 248 °F	ISO 527
	2.90 MPa	421 psi	
	@Strain 38.83 %, Temperature 120 °C	@Strain 38.83 %, Temperature 248 °F	ISO 527
	2.90 MPa	421 psi	
	@Strain 14.63 %, Temperature 90.0 °C	@Strain 14.63 %, Temperature 194 °F	ISO 527
	2.97 MPa	431 psi	
	@Strain 42.15 %, Temperature 120 °C	@Strain 42.15 %, Temperature 248 °F	ISO 527
	3.00 MPa	435 psi	
	@Strain 5.00 %, Temperature 23.0 °C	@Strain 5.00 %, Temperature 73.4 °F	ASTM D638
	3.01 MPa	437 psi	
	@Strain 44.8 %, Temperature 120 °C	@Strain 44.8 %, Temperature 248 °F	ISO 527
	3.02 MPa	438 psi	
	@Strain 17.15 %,	@Strain 17.15 %,	ISO 527

Mechanical Properties	Temperature 100 °C	Temperature 212 °F	Comments
	Metric	English	
	3.07 MPa	443 psi	
	@Strain 48.12 %, Temperature 120 °C	@Strain 48.12 %, Temperature 248 °F	ISO 527
	3.11 MPa	451 psi	
	@Strain 11.0 %, Temperature 60.0 °C	@Strain 11.0 %, Temperature 140 °F	ISO 527
	3.13 MPa	454 psi	
	@Strain 51.44 %, Temperature 120 °C	@Strain 51.44 %, Temperature 248 °F	ISO 527
	3.16 MPa	458 psi	
	@Strain 17.48 %, Temperature 90.0 °C	@Strain 17.48 %, Temperature 194 °F	ISO 527
	3.17 MPa	460 psi	
	@Strain 54.76 %, Temperature 120 °C	@Strain 54.76 %, Temperature 248 °F	ISO 527
	3.22 MPa	467 psi	
	@Strain 58.08 %, Temperature 120 °C	@Strain 58.08 %, Temperature 248 °F	ISO 527
	3.24 MPa	470 psi	
	@Strain 20.06 %, Temperature 100 °C	@Strain 20.06 %, Temperature 212 °F	ISO 527
	3.26 MPa	473 psi	
	@Strain 5.83 %, Temperature 23.0 °C	@Strain 5.83 %, Temperature 73.4 °F	ISO 527
	3.27 MPa	474 psi	
	@Strain 61.4 %, Temperature 120 °C	@Strain 61.4 %, Temperature 248 °F	ISO 527
	3.30 MPa	479 psi	
	@Strain 64.05 %, Temperature 120 °C	@Strain 64.05 %, Temperature 248 °F	ISO 527
	3.33 MPa	483 psi	
	@Strain 67.37 %, Temperature 120 °C	@Strain 67.37 %, Temperature 248 °F	ISO 527
	3.34 MPa	484 psi	
	@Strain 19.62 %, Temperature 90.0 °C	@Strain 19.62 %, Temperature 194 °F	ISO 527
	3.37 MPa	489 psi	

Mechanical Properties	@Strain 70.69 %, Metric Temperature 120 °C	@Strain 70.69 %, English Temperature 248 °F	ISO 527 Comments
	3.40 MPa	493 psi	
	@Strain 74.01 %, Temperature 120 °C	@Strain 74.01 %, Temperature 248 °F	ISO 527
	3.43 MPa	497 psi	
	@Strain 22.98 %, Temperature 100 °C	@Strain 22.98 %, Temperature 212 °F	ISO 527
	3.44 MPa	499 psi	
	@Strain 77.33 %, Temperature 120 °C	@Strain 77.33 %, Temperature 248 °F	ISO 527

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