

## DuPont Performance Polymers Hytrel® 4068 Polyester Elastomer TPC-ET (Unverified Data\*\*)

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

**Material Notes:**

40 Shore D High Performance Polyester Elastomer with Non-discoloring Stabilizer Information provided by DuPont Performance Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Performance-Polymers-Hytrel-4068-Polyester-Elastomer-TPC-ET-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Hytrel-4068-Polyester-Elastomer-TPC-ET-nbspUnverified-Data.php)

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in <sup>3</sup>	
	1.11 g/cc	0.0401 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.70 %	0.70 %	Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Moisture Absorption	0.300 %	0.300 %	Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Water Absorption at Saturation	0.70 %	0.70 %	Immersion 24h; ASTM D570
Viscosity	77960 cP	77960 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 230 °C	@Shear Rate 5000 1/s, Temperature 446 °F	
	88890 cP	88890 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 215 °C	@Shear Rate 5000 1/s, Temperature 419 °F	
	97630 cP	97630 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 205 °C	@Shear Rate 5000 1/s, Temperature 401 °F	
	306400 cP	306400 cP	ISO 11403-1 -2
	@Shear Rate 500 1/s, Temperature 230 °C	@Shear Rate 500 1/s, Temperature 446 °F	
371500 cP	371500 cP	ISO 11403-1 -2	
@Shear Rate 500 1/s, Temperature 215 °C	@Shear Rate 500 1/s, Temperature 419 °F		
422600 cP	422600 cP	ISO 11403-1 -2	
@Shear Rate 500 1/s, Temperature 205 °C	@Shear Rate 500 1/s, Temperature 401 °F		
	678300 cP	678300 cP	

Physical Properties	@Shear Rate 10.0 1/s, Metric Temperature 230 °C	@Shear Rate 10.0 1/s, English Temperature 446 °F	ISO 11403-1 -2 Comments
	989500 cP	989500 cP	
	@Shear Rate 10.0 1/s, Temperature 215 °C	@Shear Rate 10.0 1/s, Temperature 419 °F	ISO 11403-1 -2
	1.298e+6 cP	1.298e+6 cP	
	@Shear Rate 10.0 1/s, Temperature 205 °C	@Shear Rate 10.0 1/s, Temperature 401 °F	ISO 11403-1 -2
Linear Mold Shrinkage, Flow	0.0080 cm/cm	0.0080 in/in	ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ISO 294-4 2577
Melt Flow	8.5 g/10 min	8.5 g/10 min	
	@Load 2.16 kg, Temperature 220 °C	@Load 4.76 lb, Temperature 428 °F	ISO 1133
	9.0 g/10 min	9.0 g/10 min	
	@Load 2.16 kg, Temperature 220 °C	@Load 4.76 lb, Temperature 428 °F	cm <sup>3</sup> /10min; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	33	33	15s; ISO 868
	<= 37	<= 37	ISO 868
Tensile Strength at Break	29.0 MPa	4210 psi	ISO 527-1/-2
Tensile Stress	2.40 MPa	348 psi	
	@Strain 5.00 %	@Strain 5.00 %	ISO 527-1/-2
	3.20 MPa	464 psi	
	@Strain 10.0 %	@Strain 10.0 %	ISO 527-1/-2
	6.70 MPa	972 psi	
	@Strain 50.0 %	@Strain 50.0 %	ISO 527-1/-2
	7.50 MPa	1090 psi	
	@Strain 100 %	@Strain 100 %	ISO 527-1/-2
	1.40 MPa	203 psi	
	@Strain 6.99 %, Temperature 120 °C	@Strain 6.99 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	1.66 MPa	241 psi	
	@Strain 6.75 %, Temperature 100 °C	@Strain 6.75 %, Temperature 212 °F	TPE; ISO 11403-1 -2

Mechanical Properties	Metric Pa	English	Comments
	@Strain 6.74 %, Temperature 90.0 °C	@Strain 6.74 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	<b>2.16 MPa</b>	<b>313 psi</b>	
	@Strain 7.18 %, Temperature 60.0 °C	@Strain 7.18 %, Temperature 140 °F	TPE; ISO 11403-1 -2
	<b>2.23 MPa</b>	<b>323 psi</b>	
	@Strain 16.96 %, Temperature 120 °C	@Strain 16.96 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	<b>2.44 MPa</b>	<b>354 psi</b>	
	@Strain 7.21 %, Temperature 40.0 °C	@Strain 7.21 %, Temperature 104 °F	TPE; ISO 11403-1 -2
	<b>2.61 MPa</b>	<b>379 psi</b>	
	@Strain 26.94 %, Temperature 120 °C	@Strain 26.94 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	<b>2.73 MPa</b>	<b>396 psi</b>	
	@Strain 6.28 %, Temperature 0.000 °C	@Strain 6.28 %, Temperature 32.0 °F	TPE; ISO 11403-1 -2
	<b>2.74 MPa</b>	<b>397 psi</b>	
	@Strain 16.71 %, Temperature 100 °C	@Strain 16.71 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	<b>2.80 MPa</b>	<b>406 psi</b>	
	@Strain 36.92 %, Temperature 120 °C	@Strain 36.92 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	<b>2.93 MPa</b>	<b>425 psi</b>	
	@Strain 46.9 %, Temperature 120 °C	@Strain 46.9 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	<b>2.93 MPa</b>	<b>425 psi</b>	
	@Strain 16.67 %, Temperature 90.0 °C	@Strain 16.67 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	<b>3.02 MPa</b>	<b>438 psi</b>	
	@Strain 60.21 %, Temperature 120 °C	@Strain 60.21 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	<b>3.11 MPa</b>	<b>451 psi</b>	
	@Strain 73.51 %, Temperature 120 °C	@Strain 73.51 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	<b>3.14 MPa</b>	<b>455 psi</b>	
			TPE; ISO 11403-1 -2

Mechanical Properties	@Strain 8.54 %, Metric Temperature 23.0 °C	@Strain 8.54 %, English Temperature 73.4 °F	Comments
	3.15 MPa	457 psi	
	@Strain 5.09 %, Temperature -20.0 °C	@Strain 5.09 %, Temperature -4.00 °F	TPE; ISO 11403-1 -2
	3.18 MPa	461 psi	
	@Strain 86.82 %, Temperature 120 °C	@Strain 86.82 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	3.26 MPa	473 psi	
	@Strain 100.12 %, Temperature 120 °C	@Strain 100.12 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	3.29 MPa	477 psi	
	@Strain 27.37 %, Temperature 100 °C	@Strain 27.37 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	3.38 MPa	490 psi	
	@Strain 120.08 %, Temperature 120 °C	@Strain 120.08 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	3.48 MPa	505 psi	
	@Strain 133.39 %, Temperature 120 °C	@Strain 133.39 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	3.52 MPa	511 psi	
	@Strain 27.31 %, Temperature 90.0 °C	@Strain 27.31 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	3.52 MPa	511 psi	
	@Strain 16.75 %, Temperature 60.0 °C	@Strain 16.75 %, Temperature 140 °F	TPE; ISO 11403-1 -2
	3.55 MPa	515 psi	
	@Strain 37.32 %, Temperature 100 °C	@Strain 37.32 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	3.60 MPa	522 psi	
	@Strain 150.02 %, Temperature 120 °C	@Strain 150.02 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	3.71 MPa	538 psi	
	@Strain 47.27 %, Temperature 100 °C	@Strain 47.27 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	3.81 MPa	553 psi	
	@Strain 173.97 %, Temperature 120 °C	@Strain 173.97 %, Temperature 248 °F	TPE; ISO 11403-1 -2

Mechanical Properties	3.82 MPa Metric	554 psi English	Comments TPE; ISO 11403-1 -2
	@Strain 37.24 %, Temperature 90.0 °C	@Strain 37.24 %, Temperature 194 °F	
	<b>3.84 MPa</b>	<b>557 psi</b>	TPE; ISO 11403-1 -2
	@Strain 60.07 %, Temperature 100 °C	@Strain 60.07 %, Temperature 212 °F	
	<b>3.95 MPa</b>	<b>573 psi</b>	TPE; ISO 11403-1 -2
	@Strain 73.58 %, Temperature 100 °C	@Strain 73.58 %, Temperature 212 °F	
	<b>4.00 MPa</b>	<b>580 psi</b>	TPE; ISO 11403-1 -2
	@Strain 47.17 %, Temperature 90.0 °C	@Strain 47.17 %, Temperature 194 °F	
	<b>4.02 MPa</b>	<b>583 psi</b>	TPE; ISO 11403-1 -2
	@Strain 16.82 %, Temperature 40.0 °C	@Strain 16.82 %, Temperature 104 °F	
	<b>4.05 MPa</b>	<b>587 psi</b>	TPE; ISO 11403-1 -2
	@Strain 87.09 %, Temperature 100 °C	@Strain 87.09 %, Temperature 212 °F	
	<b>4.15 MPa</b>	<b>602 psi</b>	TPE; ISO 11403-1 -2
	@Strain 100.59 %, Temperature 100 °C	@Strain 100.59 %, Temperature 212 °F	
	<b>4.16 MPa</b>	<b>603 psi</b>	TPE; ISO 11403-1 -2
	@Strain 60.64 %, Temperature 90.0 °C	@Strain 60.64 %, Temperature 194 °F	
	<b>4.21 MPa</b>	<b>611 psi</b>	TPE; ISO 11403-1 -2
	@Strain 26.31 %, Temperature 60.0 °C	@Strain 26.31 %, Temperature 140 °F	
	<b>4.28 MPa</b>	<b>621 psi</b>	TPE; ISO 11403-1 -2
	@Strain 73.41 %, Temperature 90.0 °C	@Strain 73.41 %, Temperature 194 °F	
	<b>4.32 MPa</b>	<b>627 psi</b>	TPE; ISO 11403-1 -2
	@Strain 120.5 %, Temperature 100 °C	@Strain 120.5 %, Temperature 212 °F	
	<b>4.38 MPa</b>	<b>635 psi</b>	TPE; ISO 11403-1 -2
	@Strain 86.89 %, Temperature 90.0 °C	@Strain 86.89 %, Temperature 194 °F	
	<b>4.43 MPa</b>	<b>643 psi</b>	TPE; ISO 11403-1 -2
	@Strain 134 %,	@Strain 134 %,	

Mechanical Properties	Temperature 100 °C Metric 4.51 MPa	Temperature 212 °F English 654 psi	Comments
	@Strain 100.37 %, Temperature 90.0 °C	@Strain 100.37 %, Temperature 194 °F	TPE; ISO 11403-1 -2

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