

## DuPont Performance Polymers Hytrel® 7246 Polyester Elastomer TPC-ET (Unverified Data\*\*)

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

### Material Notes:

72 Shore D High Performance Polyester Elastomer. Information provided by DuPont Performance Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Performance-Polymers-Hytrel-7246-Polyester-Elastomer-TPC-ET-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Hytrel-7246-Polyester-Elastomer-TPC-ET-nbspUnverified-Data.php)

Physical Properties	Metric	English	Comments
Density	1.11 g/cc	0.0401 lb/in <sup>3</sup>	
	1.26 g/cc	0.0455 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.60 %	0.60 %	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	0.30 %	0.30 %	Immersion 24h; ASTM D570
Viscosity	86000 cP	86000 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 260 °C	@Shear Rate 5000 1/s, Temperature 500 °F	
	105000 cP	105000 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 240 °C	@Shear Rate 5000 1/s, Temperature 464 °F	
	125000 cP	125000 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 220 °C	@Shear Rate 5000 1/s, Temperature 428 °F	
	218000 cP	218000 cP	ISO 11403-1 -2
@Shear Rate 500 1/s, Temperature 260 °C	@Shear Rate 500 1/s, Temperature 500 °F		
323000 cP	323000 cP	ISO 11403-1 -2	
@Shear Rate 500 1/s, Temperature 240 °C	@Shear Rate 500 1/s, Temperature 464 °F		
468000 cP	468000 cP	ISO 11403-1 -2	
@Shear Rate 500 1/s, Temperature 220 °C	@Shear Rate 500 1/s, Temperature 428 °F		
Linear Mold Shrinkage, Flow	0.016 cm/cm	0.016 in/in	ISO 294-4 2577

Linear Mold Shrinkage, Transverse Physical Properties	0.015 cm/cm Metric	0.015 in/in English	ISO 294-4 2577 Comments
Melt Flow	12 g/10 min	12 g/10 min	cm <sup>3</sup> /10min; ISO 1133
	@Load 2.16 kg, Temperature 240 °C	@Load 4.76 lb, Temperature 464 °F	
	12.5 g/10 min	12.5 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 240 °C	@Load 4.76 lb, Temperature 464 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	64	64	15s; ISO 868
	<= 68	<= 68	ISO 868
Tensile Strength at Break	50.0 MPa	7250 psi	ISO 527-1/-2
Tensile Stress	14.0 MPa	2030 psi	ISO 527-1/-2
	@Strain 5.00 %	@Strain 5.00 %	
	23.0 MPa	3340 psi	ISO 527-1/-2
	@Strain 10.0 %	@Strain 10.0 %	
	24.0 MPa	3480 psi	ISO 527-1/-2
	@Strain 50.0 %	@Strain 50.0 %	
	5.55 MPa	805 psi	ISO 11403-1 -2
	@Strain 2.72 %, Temperature 90.0 °C	@Strain 2.72 %, Temperature 194 °F	
	7.65 MPa	1110 psi	TPE; ISO 11403-1 -2
	@Strain 6.74 %, Temperature 120 °C	@Strain 6.74 %, Temperature 248 °F	
	8.37 MPa	1210 psi	ISO 11403-1 -2
	@Strain 2.14 %, Temperature 40.0 °C	@Strain 2.14 %, Temperature 104 °F	
	8.75 MPa	1270 psi	TPE; ISO 11403-1 -2
	@Strain 6.87 %, Temperature 100 °C	@Strain 6.87 %, Temperature 212 °F	
	9.94 MPa	1440 psi	TPE; ISO 11403-1 -2
	@Strain 6.95 %, Temperature 90.0 °C	@Strain 6.95 %, Temperature 194 °F	
	10.79 MPa	1565 psi	TPE; ISO 11403-1 -2
	@Strain 17.06 %,	@Strain 17.06 %,	

Mechanical Properties	Temperature 120 °C Metric	Temperature 248 °F English	Comments
	11.15 MPa @Strain 36.1 %, Temperature 120 °C	1617 psi @Strain 36.1 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	11.29 MPa @Strain 46.41 %, Temperature 120 °C	1637 psi @Strain 46.41 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	11.3 MPa @Strain 2.00 %, Temperature 23.0 °C	1640 psi @Strain 2.00 %, Temperature 73.4 °F	ISO 11403-1 -2
	11.34 MPa @Strain 26.58 %, Temperature 120 °C	1645 psi @Strain 26.58 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	11.42 MPa @Strain 59.11 %, Temperature 120 °C	1656 psi @Strain 59.11 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	11.55 MPa @Strain 72.59 %, Temperature 120 °C	1675 psi @Strain 72.59 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	11.65 MPa @Strain 85.29 %, Temperature 120 °C	1690 psi @Strain 85.29 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	11.78 MPa @Strain 98.78 %, Temperature 120 °C	1709 psi @Strain 98.78 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	12.0 MPa @Strain 117.82 %, Temperature 120 °C	1740 psi @Strain 117.82 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	12.19 MPa @Strain 131.3 %, Temperature 120 °C	1768 psi @Strain 131.3 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	12.31 MPa @Strain 17.37 %, Temperature 100 °C	1785 psi @Strain 17.37 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	12.5 MPa @Strain 10.9 %, Temperature 90.0 °C	1810 psi @Strain 10.9 %, Temperature 194 °F	ISO 11403-1 -2
	12.57 MPa	1823 psi	

Mechanical Properties	Metric	English	TPE; ISO 11403-1 -2 Comments
	@Strain 147.17 %, Temperature 120 °C	@Strain 147.17 %, Temperature 248 °F	
	12.95 MPa	1878 psi	
	@Strain 47.26 %, Temperature 100 °C	@Strain 47.26 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	12.99 MPa	1884 psi	
	@Strain 36.76 %, Temperature 100 °C	@Strain 36.76 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	13.04 MPa	1891 psi	
	@Strain 27.06 %, Temperature 100 °C	@Strain 27.06 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	13.14 MPa	1906 psi	
	@Strain 60.18 %, Temperature 100 °C	@Strain 60.18 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	13.33 MPa	1933 psi	
	@Strain 73.92 %, Temperature 100 °C	@Strain 73.92 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	13.39 MPa	1942 psi	
	@Strain 7.45 %, Temperature 60.0 °C	@Strain 7.45 %, Temperature 140 °F	TPE; ISO 11403-1 -2
	13.46 MPa	1952 psi	
	@Strain 86.84 %, Temperature 100 °C	@Strain 86.84 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	13.53 MPa	1962 psi	
	@Strain 16.77 %, Temperature 90.0 °C	@Strain 16.77 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	13.61 MPa	1974 psi	
	@Strain 100.57 %, Temperature 100 °C	@Strain 100.57 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	13.9 MPa	2020 psi	
	@Strain 120.77 %, Temperature 100 °C	@Strain 120.77 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	13.93 MPa	2020 psi	
	@Strain 47.05 %, Temperature 90.0 °C	@Strain 47.05 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	13.94 MPa	2022 psi	
	@Strain 37.23 %, Temperature 90.0 °C	@Strain 37.23 %, Temperature 194 °F	TPE; ISO 11403-1 -2

Mechanical Properties	Metric <sup>1</sup> MPa	English <sup>1</sup>	Comments
	@Strain 133.7 %, Temperature 100 °C	@Strain 133.7 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	<b>14.14 MPa</b>	<b>2051 psi</b>	
	@Strain 60.14 %, Temperature 90.0 °C	@Strain 60.14 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	<b>14.21 MPa</b>	<b>2061 psi</b>	
	@Strain 27.41 %, Temperature 90.0 °C	@Strain 27.41 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	<b>14.3 MPa</b>	<b>2070 psi</b>	
	@Strain 74.05 %, Temperature 90.0 °C	@Strain 74.05 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	<b>14.43 MPa</b>	<b>2093 psi</b>	
	@Strain 87.14 %, Temperature 90.0 °C	@Strain 87.14 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	<b>14.57 MPa</b>	<b>2113 psi</b>	
	@Strain 100.23 %, Temperature 90.0 °C	@Strain 100.23 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	<b>14.82 MPa</b>	<b>2149 psi</b>	
	@Strain 120.69 %, Temperature 90.0 °C	@Strain 120.69 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	<b>14.85 MPa</b>	<b>2154 psi</b>	
	@Strain 150.66 %, Temperature 100 °C	@Strain 150.66 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	<b>15.02 MPa</b>	<b>2178 psi</b>	
	@Strain 133.78 %, Temperature 90.0 °C	@Strain 133.78 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	<b>15.53 MPa</b>	<b>2252 psi</b>	
	@Strain 150.15 %, Temperature 90.0 °C	@Strain 150.15 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	<b>17.02 MPa</b>	<b>2469 psi</b>	
	@Strain 7.27 %, Temperature 40.0 °C	@Strain 7.27 %, Temperature 104 °F	TPE; ISO 11403-1 -2
	<b>17.12 MPa</b>	<b>2483 psi</b>	
	@Strain 49.04 %, Temperature 60.0 °C	@Strain 49.04 %, Temperature 140 °F	TPE; ISO 11403-1 -2
	<b>17.24 MPa</b>	<b>2500 psi</b>	

Mechanical Properties	Metric @Strain 38.84 %, Temperature 60.0 °C	English @Strain 38.84 %, Temperature 140 °F	Comments TPE: ISO 11403-1 -2
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