

DuPont Performance Polymers Hytrel® 8238 Polyester Elastomer TPC-ET (Unverified Data**)

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

Material Notes:

82 Shore D Standard 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-8238-Polyester-Elastomer-TPC-ET-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	
	1.28 g/cc	0.0462 lb/in ³	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	92900 cP	92900 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 250 °C	@Shear Rate 5000 1/s, Temperature 482 °F	
	116300 cP	116300 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 240 °C	@Shear Rate 5000 1/s, Temperature 464 °F	
271000 cP	271000 cP	ISO 11403-1 -2	
@Shear Rate 500 1/s, Temperature 250 °C	@Shear Rate 500 1/s, Temperature 482 °F		
393040 cP	393040 cP	ISO 11403-1 -2	
@Shear Rate 500 1/s, Temperature 240 °C	@Shear Rate 500 1/s, Temperature 464 °F		
Linear Mold Shrinkage, Flow	0.016 cm/cm	0.016 in/in	ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.016 cm/cm	0.016 in/in	ISO 294-4 2577
Melt Flow	11.5 g/10 min	11.5 g/10 min	cm ³ /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

Physical Properties	Metric @Load 2.16 kg, Temperature 240 °C	English @Load 4.76 lb, Temperature 464 °F	Comments
Mechanical Properties	Metric	English	Comments
Hardness, Shore D	70	70	15s; ISO 868
	<= 76	<= 76	ISO 868
Tensile Strength at Break	46.0 MPa	6670 psi	ISO 527-1/-2
Tensile Stress	26.0 MPa	3770 psi	ISO 527-1/-2
	@Strain 100 %	@Strain 100 %	
	28.0 MPa	4060 psi	ISO 527-1/-2
	@Strain 50.0 %	@Strain 50.0 %	
	34.0 MPa	4930 psi	ISO 527-1/-2
	@Strain 10.0 %	@Strain 10.0 %	
	8.21 MPa	1190 psi	ISO 11403-1 -2
	@Strain 3.83 %, Temperature 90.0 °C	@Strain 3.83 %, Temperature 194 °F	
	9.71 MPa	1410 psi	TPE; ISO 11403-1 -2
	@Strain 7.30 %, Temperature 120 °C	@Strain 7.30 %, Temperature 248 °F	
	10.85 MPa	1574 psi	TPE; ISO 11403-1 -2
	@Strain 7.37 %, Temperature 100 °C	@Strain 7.37 %, Temperature 212 °F	
	11.55 MPa	1675 psi	TPE; ISO 11403-1 -2
	@Strain 36.5 %, Temperature 120 °C	@Strain 36.5 %, Temperature 248 °F	
	11.62 MPa	1685 psi	TPE; ISO 11403-1 -2
	@Strain 45.94 %, Temperature 120 °C	@Strain 45.94 %, Temperature 248 °F	
	11.7 MPa	1700 psi	TPE; ISO 11403-1 -2
	@Strain 58.83 %, Temperature 120 °C	@Strain 58.83 %, Temperature 248 °F	
	11.79 MPa	1710 psi	TPE; ISO 11403-1 -2
	@Strain 72.57 %, Temperature 120 °C	@Strain 72.57 %, Temperature 248 °F	
	11.84 MPa	1717 psi	TPE; ISO 11403-1 -2
	@Strain 85.45 %,	@Strain 85.45 %,	

Mechanical Properties	Temperature 120 °C Metric	Temperature 248 °F English	Comments
	11.86 MPa @Strain 7.23 %, Temperature 90.0 °C	1720 psi @Strain 7.23 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	11.93 MPa @Strain 98.33 %, Temperature 120 °C	1730 psi @Strain 98.33 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	12.0 MPa @Strain 118.08 %, Temperature 120 °C	1740 psi @Strain 118.08 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	12.02 MPa @Strain 16.75 %, Temperature 120 °C	1743 psi @Strain 16.75 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	12.07 MPa @Strain 130.96 %, Temperature 120 °C	1751 psi @Strain 130.96 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	12.16 MPa @Strain 147.28 %, Temperature 120 °C	1764 psi @Strain 147.28 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	12.36 MPa @Strain 26.19 %, Temperature 120 °C	1793 psi @Strain 26.19 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	13.26 MPa @Strain 36.85 %, Temperature 100 °C	1923 psi @Strain 36.85 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	13.33 MPa @Strain 47.26 %, Temperature 100 °C	1933 psi @Strain 47.26 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	13.44 MPa @Strain 60.26 %, Temperature 100 °C	1949 psi @Strain 60.26 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	13.53 MPa @Strain 74.13 %, Temperature 100 °C	1962 psi @Strain 74.13 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	13.62 MPa @Strain 87.14 %, Temperature 100 °C	1975 psi @Strain 87.14 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	13.66 MPa	1981 psi	

Mechanical Properties	Metric	English	Comments
	@Strain 16.91 %, Temperature 100 °C	@Strain 16.91 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	13.7 MPa	1990 psi	TPE; ISO 11403-1 -2
	@Strain 100.15 %, Temperature 100 °C	@Strain 100.15 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	13.8 MPa	2000 psi	TPE; ISO 11403-1 -2
	@Strain 120.09 %, Temperature 100 °C	@Strain 120.09 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	13.87 MPa	2012 psi	TPE; ISO 11403-1 -2
	@Strain 133.96 %, Temperature 100 °C	@Strain 133.96 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	13.94 MPa	2022 psi	TPE; ISO 11403-1 -2
	@Strain 37.83 %, Temperature 90.0 °C	@Strain 37.83 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	13.96 MPa	2025 psi	TPE; ISO 11403-1 -2
	@Strain 150.44 %, Temperature 100 °C	@Strain 150.44 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	14.01 MPa	2032 psi	TPE; ISO 11403-1 -2
	@Strain 27.31 %, Temperature 100 °C	@Strain 27.31 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	14.14 MPa	2051 psi	TPE; ISO 11403-1 -2
	@Strain 48.03 %, Temperature 90.0 °C	@Strain 48.03 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	14.28 MPa	2071 psi	TPE; ISO 11403-1 -2
	@Strain 61.63 %, Temperature 90.0 °C	@Strain 61.63 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	14.43 MPa	2093 psi	TPE; ISO 11403-1 -2
	@Strain 75.23 %, Temperature 90.0 °C	@Strain 75.23 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	14.51 MPa	2105 psi	ISO 11403-1 -2
	@Strain 14.03 %, Temperature 90.0 °C	@Strain 14.03 %, Temperature 194 °F	ISO 11403-1 -2
	14.54 MPa	2109 psi	TPE; ISO 11403-1 -2
	@Strain 88.83 %, Temperature 90.0 °C	@Strain 88.83 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	14.63 MPa	2122 psi	TPE; ISO 11403-1 -2
	@Strain 102.43 %, Temperature 90.0 °C	@Strain 102.43 %, Temperature 194 °F	TPE; ISO 11403-1 -2

Mechanical Properties	Metric (MPa)	English (psi)	Comments
	@Strain 122.83 %, Temperature 90.0 °C	@Strain 122.83 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	14.79 MPa	2145 psi	
	@Strain 136.43 %, Temperature 90.0 °C	@Strain 136.43 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	14.98 MPa	2173 psi	
	@Strain 17.43 %, Temperature 90.0 °C	@Strain 17.43 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	15.11 MPa	2192 psi	
	@Strain 27.63 %, Temperature 90.0 °C	@Strain 27.63 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	15.5 MPa	2250 psi	
	@Strain 7.03 %, Temperature 60.0 °C	@Strain 7.03 %, Temperature 140 °F	TPE; ISO 11403-1 -2
	17.35 MPa	2516 psi	
	@Strain 38.43 %, Temperature 60.0 °C	@Strain 38.43 %, Temperature 140 °F	TPE; ISO 11403-1 -2
	17.36 MPa	2518 psi	
	@Strain 49.18 %, Temperature 60.0 °C	@Strain 49.18 %, Temperature 140 °F	TPE; ISO 11403-1 -2
	17.59 MPa	2551 psi	
	@Strain 62.4 %, Temperature 60.0 °C	@Strain 62.4 %, Temperature 140 °F	TPE; ISO 11403-1 -2
	17.72 MPa	2570 psi	
	@Strain 76.45 %, Temperature 60.0 °C	@Strain 76.45 %, Temperature 140 °F	TPE; ISO 11403-1 -2
	17.88 MPa	2593 psi	
	@Strain 90.5 %, Temperature 60.0 °C	@Strain 90.5 %, Temperature 140 °F	TPE; ISO 11403-1 -2
	18.01 MPa	2612 psi	
	@Strain 104.55 %, Temperature 60.0 °C	@Strain 104.55 %, Temperature 140 °F	TPE; ISO 11403-1 -2
	18.15 MPa	2632 psi	
	@Strain 125.22 %, Temperature 60.0 °C	@Strain 125.22 %, Temperature 140 °F	TPE; ISO 11403-1 -2
	18.17 MPa	2635 psi	
			ISO 11403-1 -2

Mechanical Properties	Metric	English	Comments
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@Strain 4.17 %,
Temperature 40.0 °C

@Strain 4.17 %,
Temperature 104 °F

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