

DuPont Performance Polymers Hytrel® HTR8441 BK316 Polyester Elastomer TPC-ET (Unverified Data**)

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

Material Notes:

55 Shore D High Viscosity Polyester Elastomer Developed for Blow Molding Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Hytrel-HTR8441-BK316-Polyester-Elastomer-TPC-ET-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in ³	
	1.19 g/cc	0.0430 lb/in ³	ISO 1183
Viscosity	114600 cP	114600 cP	
	@Shear Rate 5000 1/s, Temperature 240 °C	@Shear Rate 5000 1/s, Temperature 464 °F	ISO 11403-1 -2
	143100 cP	143100 cP	
	@Shear Rate 5000 1/s, Temperature 230 °C	@Shear Rate 5000 1/s, Temperature 446 °F	ISO 11403-1 -2
	511800 cP	511800 cP	
	@Shear Rate 500 1/s, Temperature 240 °C	@Shear Rate 500 1/s, Temperature 464 °F	ISO 11403-1 -2
	643200 cP	643200 cP	
	@Shear Rate 500 1/s, Temperature 230 °C	@Shear Rate 500 1/s, Temperature 446 °F	ISO 11403-1 -2
Linear Mold Shrinkage, Flow	0.022 cm/cm	0.022 in/in	ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.021 cm/cm	0.021 in/in	ISO 294-4 2577
Melt Flow	10 g/10 min	10 g/10 min	
	@Load 10.0 kg, Temperature 240 °C	@Load 22.0 lb, Temperature 464 °F	cm ³ /10min; ISO 1133
	10 g/10 min	10 g/10 min	
	@Load 10.0 kg, Temperature 240 °C	@Load 22.0 lb, Temperature 464 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	52	52	15s; ISO 868
	<= 58	<= 58	ISO 868

Mechanical Properties	Metric	English	Comments
Tensile Stress	7.80 MPa	1130 psi	ISO 527-1/-2
	@Strain 5.00 %	@Strain 5.00 %	
	11.9 MPa	1730 psi	ISO 527-1/-2
	@Strain 10.0 %	@Strain 10.0 %	
	19.0 MPa	2760 psi	ISO 527-1/-2
	@Strain 50.0 %	@Strain 50.0 %	
	4.57 MPa	663 psi	TPE; ISO 11403-1 -2
	@Strain 13.22 %, Temperature 150 °C	@Strain 13.22 %, Temperature 302 °F	
	5.83 MPa	846 psi	TPE; ISO 11403-1 -2
	@Strain 11.72 %, Temperature 120 °C	@Strain 11.72 %, Temperature 248 °F	
	5.87 MPa	851 psi	TPE; ISO 11403-1 -2
	@Strain 30.75 %, Temperature 150 °C	@Strain 30.75 %, Temperature 302 °F	
	6.51 MPa	944 psi	TPE; ISO 11403-1 -2
	@Strain 48.57 %, Temperature 150 °C	@Strain 48.57 %, Temperature 302 °F	
	7.05 MPa	1020 psi	TPE; ISO 11403-1 -2
	@Strain 66.04 %, Temperature 150 °C	@Strain 66.04 %, Temperature 302 °F	
	7.55 MPa	1100 psi	TPE; ISO 11403-1 -2
	@Strain 82.79 %, Temperature 150 °C	@Strain 82.79 %, Temperature 302 °F	
	7.69 MPa	1120 psi	TPE; ISO 11403-1 -2
	@Strain 12.63 %, Temperature 90.0 °C	@Strain 12.63 %, Temperature 194 °F	
	7.73 MPa	1120 psi	TPE; ISO 11403-1 -2
	@Strain 28.06 %, Temperature 120 °C	@Strain 28.06 %, Temperature 248 °F	
	7.96 MPa	1150 psi	TPE; ISO 11403-1 -2
	@Strain 8.44 %, Temperature 60.0 °C	@Strain 8.44 %, Temperature 140 °F	
	8.14 MPa	1180 psi	TPE; ISO 11403-1 -2
	@Strain 99.21 %,	@Strain 99.21 %,	

Mechanical Properties	Temperature 150 °C Metric	Temperature 302 °F English	Comments
	8.62 MPa	1250 psi	
	@Strain 44.89 %, Temperature 120 °C	@Strain 44.89 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	8.69 MPa	1260 psi	
	@Strain 114.16 %, Temperature 150 °C	@Strain 114.16 %, Temperature 302 °F	TPE; ISO 11403-1 -2
	9.20 MPa	1330 psi	
	@Strain 128.33 %, Temperature 150 °C	@Strain 128.33 %, Temperature 302 °F	TPE; ISO 11403-1 -2
	9.32 MPa	1350 psi	
	@Strain 61.46 %, Temperature 120 °C	@Strain 61.46 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	9.45 MPa	1370 psi	
	@Strain 8.11 %, Temperature 40.0 °C	@Strain 8.11 %, Temperature 104 °F	TPE; ISO 11403-1 -2
	9.69 MPa	1410 psi	
	@Strain 141.75 %, Temperature 150 °C	@Strain 141.75 %, Temperature 302 °F	TPE; ISO 11403-1 -2
	9.95 MPa	1440 psi	
	@Strain 77.39 %, Temperature 120 °C	@Strain 77.39 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	10.0 MPa	1450 psi	
	@Strain 29.16 %, Temperature 90.0 °C	@Strain 29.16 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	10.39 MPa	1507 psi	
	@Strain 160.99 %, Temperature 150 °C	@Strain 160.99 %, Temperature 302 °F	TPE; ISO 11403-1 -2
	10.75 MPa	1559 psi	
	@Strain 97.58 %, Temperature 120 °C	@Strain 97.58 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	10.83 MPa	1571 psi	
	@Strain 173.83 %, Temperature 150 °C	@Strain 173.83 %, Temperature 302 °F	TPE; ISO 11403-1 -2
	11.09 MPa	1608 psi	
	@Strain 46.26 %, Temperature 90.0 °C	@Strain 46.26 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	11.37 MPa	1649 psi	

Mechanical Properties	Metric	English	Comments
	@Strain 189.93 %, Temperature 150 °C	@Strain 189.93 %, Temperature 302 °F	TPE; ISO 11403-1 -2
	11.46 MPa	1662 psi	TPE; ISO 11403-1 -2
	@Strain 116.58 %, Temperature 120 °C	@Strain 116.58 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	11.96 MPa	1735 psi	TPE; ISO 11403-1 -2
	@Strain 62.83 %, Temperature 90.0 °C	@Strain 62.83 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	12.07 MPa	1751 psi	TPE; ISO 11403-1 -2
	@Strain 213.35 %, Temperature 150 °C	@Strain 213.35 %, Temperature 302 °F	TPE; ISO 11403-1 -2
	12.07 MPa	1751 psi	TPE; ISO 11403-1 -2
	@Strain 24.82 %, Temperature 60.0 °C	@Strain 24.82 %, Temperature 140 °F	TPE; ISO 11403-1 -2
	12.09 MPa	1754 psi	TPE; ISO 11403-1 -2
	@Strain 8.07 %, Temperature 23.0 °C	@Strain 8.07 %, Temperature 73.4 °F	TPE; ISO 11403-1 -2
	12.11 MPa	1756 psi	TPE; ISO 11403-1 -2
	@Strain 134.44 %, Temperature 120 °C	@Strain 134.44 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	12.69 MPa	1841 psi	TPE; ISO 11403-1 -2
	@Strain 151.11 %, Temperature 120 °C	@Strain 151.11 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	12.74 MPa	1848 psi	TPE; ISO 11403-1 -2
	@Strain 78.74 %, Temperature 90.0 °C	@Strain 78.74 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	12.8 MPa	1860 psi	TPE; ISO 11403-1 -2
	@Strain 240.5 %, Temperature 150 °C	@Strain 240.5 %, Temperature 302 °F	TPE; ISO 11403-1 -2
	13.45 MPa	1951 psi	TPE; ISO 11403-1 -2
	@Strain 174.3 %, Temperature 120 °C	@Strain 174.3 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	13.57 MPa	1968 psi	TPE; ISO 11403-1 -2
	@Strain 42.36 %, Temperature 60.0 °C	@Strain 42.36 %, Temperature 140 °F	TPE; ISO 11403-1 -2
	13.7 MPa	1990 psi	TPE; ISO 11403-1 -2
	@Strain 99.16 %, Temperature 90.0 °C	@Strain 99.16 %, Temperature 194 °F	TPE; ISO 11403-1 -2

Mechanical Properties	Metric	English	Comments
	13.9 MPa	2000 psi	
	@Strain 188.83 %, Temperature 120 °C	@Strain 188.83 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	14.24 MPa	2065 psi	
	@Strain 24.71 %, Temperature 40.0 °C	@Strain 24.71 %, Temperature 104 °F	TPE; ISO 11403-1 -2
	14.45 MPa	2096 psi	
	@Strain 207.18 %, Temperature 120 °C	@Strain 207.18 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	14.55 MPa	2110 psi	
	@Strain 118.91 %, Temperature 90.0 °C	@Strain 118.91 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	14.65 MPa	2125 psi	
	@Strain 59.7 %, Temperature 60.0 °C	@Strain 59.7 %, Temperature 140 °F	TPE; ISO 11403-1 -2
	15.1 MPa	2190 psi	
	@Strain 234.77 %, Temperature 120 °C	@Strain 234.77 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	15.31 MPa	2221 psi	
	@Strain 137.97 %, Temperature 90.0 °C	@Strain 137.97 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	15.61 MPa	2264 psi	
	@Strain 76.42 %, Temperature 60.0 °C	@Strain 76.42 %, Temperature 140 °F	TPE; ISO 11403-1 -2
	15.63 MPa	2267 psi	
	@Strain 270.58 %, Temperature 120 °C	@Strain 270.58 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	15.83 MPa	2296 psi	
	@Strain 42.79 %, Temperature 40.0 °C	@Strain 42.79 %, Temperature 104 °F	TPE; ISO 11403-1 -2
	15.98 MPa	2318 psi	
	@Strain 156.09 %, Temperature 90.0 °C	@Strain 156.09 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	16.78 MPa	2434 psi	
	@Strain 97.74 %, Temperature 60.0 °C	@Strain 97.74 %, Temperature 140 °F	TPE; ISO 11403-1 -2
	16.82 MPa	2440 psi	

Mechanical Properties	Metric	English	Comments
	@Strain 9.10 %, Temperature 0.000 °C	@Strain 9.10 %, Temperature 32.0 °F	TPE: ISO 11403-1 -2

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