

DuPont Performance Polymers Hytrel® HTR8163HVBK Polyester Elastomer TPC-ET (Unverified Data**)

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

Material Notes:

65 Shore D Polyester Elastomer with Heat Ageing Protection Developed for Extrusion
Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Hytrel-HTR8163HVBK-Polyester-Elastomer-TPC-ET-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	
	1.23 g/cc	0.0444 lb/in ³	ISO 1183
Viscosity	91910 cP	91910 cP	
	@Shear Rate 5000 1/s, Temperature 245 °C	@Shear Rate 5000 1/s, Temperature 473 °F	ISO 11403-1 -2
	99440 cP	99440 cP	
	@Shear Rate 5000 1/s, Temperature 235 °C	@Shear Rate 5000 1/s, Temperature 455 °F	ISO 11403-1 -2
	108100 cP	108100 cP	
	@Shear Rate 5000 1/s, Temperature 225 °C	@Shear Rate 5000 1/s, Temperature 437 °F	ISO 11403-1 -2
	387800 cP	387800 cP	
@Shear Rate 500 1/s, Temperature 245 °C	@Shear Rate 500 1/s, Temperature 473 °F	ISO 11403-1 -2	
Melt Flow	431600 cP	431600 cP	
	@Shear Rate 500 1/s, Temperature 235 °C	@Shear Rate 500 1/s, Temperature 455 °F	ISO 11403-1 -2
	480900 cP	480900 cP	
	@Shear Rate 500 1/s, Temperature 225 °C	@Shear Rate 500 1/s, Temperature 437 °F	ISO 11403-1 -2
	5.0 g/10 min	5.0 g/10 min	
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	cm ³ /10min; ISO 1133
	5.0 g/10 min	5.0 g/10 min	
@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	ISO 1133	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	15s; ISO 868
	<= 65	<= 65	ISO 868
Tensile Strength at Break	44.0 MPa	6380 psi	ISO 527-1/-2
Tensile Stress	12.0 MPa	1740 psi	ISO 527-1/-2
	@Strain 5.00 %	@Strain 5.00 %	
	17.8 MPa	2580 psi	ISO 527-1/-2
	@Strain 10.0 %	@Strain 10.0 %	
	20.0 MPa	2900 psi	ISO 527-1/-2
	@Strain 50.0 %	@Strain 50.0 %	
	23.0 MPa	3340 psi	ISO 527-1/-2
	@Strain 100 %	@Strain 100 %	
	32.0 MPa	4640 psi	ISO 527-1/-2
	@Strain 300 %	@Strain 300 %	
	0.230 MPa	33.4 psi	TPE; ISO 11403-1 -2
	@Strain 0.0500 %, Temperature 200 °C	@Strain 0.0500 %, Temperature 392 °F	
	0.250 MPa	36.3 psi	TPE; ISO 11403-1 -2
	@Strain 0.180 %, Temperature 200 °C	@Strain 0.180 %, Temperature 392 °F	
	0.350 MPa	50.8 psi	TPE; ISO 11403-1 -2
	@Strain 0.0500 %, Temperature 180 °C	@Strain 0.0500 %, Temperature 356 °F	
	0.360 MPa	52.2 psi	TPE; ISO 11403-1 -2
	@Strain 0.0400 %, Temperature 150 °C	@Strain 0.0400 %, Temperature 302 °F	
	0.380 MPa	55.1 psi	TPE; ISO 11403-1 -2
	@Strain 0.0400 %, Temperature 120 °C	@Strain 0.0400 %, Temperature 248 °F	
	0.410 MPa	59.5 psi	TPE; ISO 11403-1 -2
	@Strain 0.0400 %, Temperature 90.0 °C	@Strain 0.0400 %, Temperature 194 °F	
	0.420 MPa	60.9 psi	TPE; ISO 11403-1 -2
	@Strain 0.210 %,	@Strain 0.210 %,	

Mechanical Properties	Temperature 180 °C Metric	Temperature 356 °F English	Comments
	0.430 MPa @Strain 0.0400 %, Temperature 60.0 °C	62.4 psi @Strain 0.0400 %, Temperature 140 °F	TPE; ISO 11403-1 -2
	0.450 MPa @Strain 0.0200 %, Temperature 0.000 °C	65.3 psi @Strain 0.0200 %, Temperature 32.0 °F	TPE; ISO 11403-1 -2
	0.480 MPa @Strain 0.0200 %, Temperature -20.0 °C	69.6 psi @Strain 0.0200 %, Temperature -4.00 °F	TPE; ISO 11403-1 -2
	0.490 MPa @Strain 0.220 %, Temperature 150 °C	71.1 psi @Strain 0.220 %, Temperature 302 °F	TPE; ISO 11403-1 -2
	0.540 MPa @Strain 0.170 %, Temperature 120 °C	78.3 psi @Strain 0.170 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	0.580 MPa @Strain 0.0600 %, Temperature 23.0 °C	84.1 psi @Strain 0.0600 %, Temperature 73.4 °F	TPE; ISO 11403-1 -2
	0.640 MPa @Strain 0.200 %, Temperature 90.0 °C	92.8 psi @Strain 0.200 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	0.690 MPa @Strain 3.32 %, Temperature 200 °C	100 psi @Strain 3.32 %, Temperature 392 °F	TPE; ISO 11403-1 -2
	0.710 MPa @Strain 0.190 %, Temperature 60.0 °C	103 psi @Strain 0.190 %, Temperature 140 °F	TPE; ISO 11403-1 -2
	0.970 MPa @Strain 0.120 %, Temperature 0.000 °C	141 psi @Strain 0.120 %, Temperature 32.0 °F	TPE; ISO 11403-1 -2
	1.22 MPa @Strain 0.250 %, Temperature 23.0 °C	177 psi @Strain 0.250 %, Temperature 73.4 °F	TPE; ISO 11403-1 -2
	1.23 MPa @Strain 10.41 %, Temperature 200 °C	178 psi @Strain 10.41 %, Temperature 392 °F	TPE; ISO 11403-1 -2
	1.27 MPa	184 psi	

Mechanical Properties	Metric	English	Comments
	@Strain 0.100 %, Temperature -20.0 °C	@Strain 0.100 %, Temperature -4.00 °F	TPE; ISO 11403-1 -2
	1.46 MPa	212 psi	TPE; ISO 11403-1 -2
	@Strain 0.210 %, Temperature 0.000 °C	@Strain 0.210 %, Temperature 32.0 °F	TPE; ISO 11403-1 -2
	1.46 MPa	212 psi	TPE; ISO 11403-1 -2
	@Strain 18.09 %, Temperature 200 °C	@Strain 18.09 %, Temperature 392 °F	TPE; ISO 11403-1 -2
	1.66 MPa	241 psi	TPE; ISO 11403-1 -2
	@Strain 34.33 %, Temperature 200 °C	@Strain 34.33 %, Temperature 392 °F	TPE; ISO 11403-1 -2
	2.07 MPa	300 psi	TPE; ISO 11403-1 -2
	@Strain 82.96 %, Temperature 200 °C	@Strain 82.96 %, Temperature 392 °F	TPE; ISO 11403-1 -2
	2.07 MPa	300 psi	TPE; ISO 11403-1 -2
	@Strain 0.160 %, Temperature -20.0 °C	@Strain 0.160 %, Temperature -4.00 °F	TPE; ISO 11403-1 -2
	2.15 MPa	312 psi	TPE; ISO 11403-1 -2
	@Strain 92.53 %, Temperature 200 °C	@Strain 92.53 %, Temperature 392 °F	TPE; ISO 11403-1 -2
	2.27 MPa	329 psi	TPE; ISO 11403-1 -2
	@Strain 106.46 %, Temperature 200 °C	@Strain 106.46 %, Temperature 392 °F	TPE; ISO 11403-1 -2
	2.40 MPa	348 psi	TPE; ISO 11403-1 -2
	@Strain 124.88 %, Temperature 200 °C	@Strain 124.88 %, Temperature 392 °F	TPE; ISO 11403-1 -2
	2.80 MPa	406 psi	TPE; ISO 11403-1 -2
	@Strain 0.220 %, Temperature -20.0 °C	@Strain 0.220 %, Temperature -4.00 °F	TPE; ISO 11403-1 -2
	3.25 MPa	471 psi	TPE; ISO 11403-1 -2
	@Strain 0.140 %, Temperature -40.0 °C	@Strain 0.140 %, Temperature -40.0 °F	TPE; ISO 11403-1 -2
	3.52 MPa	511 psi	TPE; ISO 11403-1 -2
	@Strain 21.33 %, Temperature 180 °C	@Strain 21.33 %, Temperature 356 °F	TPE; ISO 11403-1 -2
	3.98 MPa	577 psi	TPE; ISO 11403-1 -2
	@Strain 60.25 %, Temperature 180 °C	@Strain 60.25 %, Temperature 356 °F	TPE; ISO 11403-1 -2

Mechanical Properties	Metric	English	Comments
	@Strain 93.62 %, Temperature 180 °C	@Strain 93.62 %, Temperature 356 °F	TPE; ISO 11403-1 -2
	4.98 MPa	722 psi	
	@Strain 129.19 %, Temperature 180 °C	@Strain 129.19 %, Temperature 356 °F	TPE; ISO 11403-1 -2
	5.60 MPa	812 psi	
	@Strain 159.43 %, Temperature 180 °C	@Strain 159.43 %, Temperature 356 °F	TPE; ISO 11403-1 -2
	6.28 MPa	911 psi	
	@Strain 187.51 %, Temperature 180 °C	@Strain 187.51 %, Temperature 356 °F	TPE; ISO 11403-1 -2
	6.54 MPa	949 psi	
	@Strain 24.54 %, Temperature 150 °C	@Strain 24.54 %, Temperature 302 °F	TPE; ISO 11403-1 -2
	6.84 MPa	992 psi	
	@Strain 214.38 %, Temperature 180 °C	@Strain 214.38 %, Temperature 356 °F	TPE; ISO 11403-1 -2
	7.23 MPa	1050 psi	
	@Strain 65.52 %, Temperature 150 °C	@Strain 65.52 %, Temperature 302 °F	TPE; ISO 11403-1 -2
	7.80 MPa	1130 psi	
	@Strain 11.79 %, Temperature 120 °C	@Strain 11.79 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	7.83 MPa	1140 psi	
	@Strain 103.46 %, Temperature 150 °C	@Strain 103.46 %, Temperature 302 °F	TPE; ISO 11403-1 -2
	8.67 MPa	1260 psi	
	@Strain 0.360 %, Temperature -40.0 °C	@Strain 0.360 %, Temperature -40.0 °F	TPE; ISO 11403-1 -2
	8.80 MPa	1280 psi	
	@Strain 140.7 %, Temperature 150 °C	@Strain 140.7 %, Temperature 302 °F	TPE; ISO 11403-1 -2
	9.87 MPa	1430 psi	
	@Strain 171.75 %, Temperature 150 °C	@Strain 171.75 %, Temperature 302 °F	TPE; ISO 11403-1 -2
	10.04 MPa	1456 psi	

Mechanical Properties	Metric @Strain 49.19 %, Temperature 120 °C	English @Strain 49.19 %, Temperature 248 °F	Comments TPE; ISO 11403-1 -2
	10.39 MPa	1507 psi	
	@Strain 318.1 %, Temperature 180 °C	@Strain 318.1 %, Temperature 356 °F	TPE; ISO 11403-1 -2

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