

DuPont Performance Polymers Hytrel® HTR8341C BK320 Polyester Elastomer TPC-ET (Unverified Data**)

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

Material Notes:

40 Shore D Lubricated High Viscosity Polyester Elastomer with Superior Fatigue Resistance 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-HTR8341C-BK320-Polyester-Elastomer-TPC-ET-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ISO 1183
Water Absorption	0.50 % @Thickness 2.00 mm	0.50 % @Thickness 0.0787 in	Sim. to ISO 62
Moisture Absorption	0.200 % @Thickness 2.00 mm	0.200 % @Thickness 0.0787 in	Sim. to ISO 62
Melt Flow	0.90 g/10 min @Load 2.16 kg, Temperature 230 °C	0.90 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	37	37	15s; ISO 868
	<= 40	<= 40	ISO 868
Tensile Strength at Break	28.0 MPa	4060 psi	ISO 527-1/-2
Tensile Stress	7.00 MPa @Strain 10.0 %	1020 psi @Strain 10.0 %	ISO 527-1/-2
	12.0 MPa @Strain 50.0 %	1740 psi @Strain 50.0 %	ISO 527-1/-2
	13.0 MPa @Strain 100 %	1890 psi @Strain 100 %	ISO 527-1/-2
	23.0 MPa @Strain 300 %	3340 psi @Strain 300 %	ISO 527-1/-2
	0.370 MPa @Strain 0.160 %,	53.7 psi @Strain 0.160 %,	TPE; ISO 11403-1 -2

Mechanical Properties	Temperature 150 °C Metric	Temperature 302 °F English	Comments
	0.390 MPa	56.6 psi	
	@Strain 0.220 %, Temperature 150 °C	@Strain 0.220 %, Temperature 302 °F	TPE; ISO 11403-1 -2
	0.390 MPa	56.6 psi	
	@Strain 0.180 %, Temperature 120 °C	@Strain 0.180 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	0.390 MPa	56.6 psi	
	@Strain 0.140 %, Temperature 90.0 °C	@Strain 0.140 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	0.390 MPa	56.6 psi	
	@Strain 0.130 %, Temperature 60.0 °C	@Strain 0.130 %, Temperature 140 °F	TPE; ISO 11403-1 -2
	0.410 MPa	59.5 psi	
	@Strain 0.210 %, Temperature 90.0 °C	@Strain 0.210 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	0.420 MPa	60.9 psi	
	@Strain 0.250 %, Temperature 120 °C	@Strain 0.250 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	0.420 MPa	60.9 psi	
	@Strain 0.150 %, Temperature 40.0 °C	@Strain 0.150 %, Temperature 104 °F	TPE; ISO 11403-1 -2
	0.440 MPa	63.8 psi	
	@Strain 0.120 %, Temperature 23.0 °C	@Strain 0.120 %, Temperature 73.4 °F	TPE; ISO 11403-1 -2
	0.450 MPa	65.3 psi	
	@Strain 0.250 %, Temperature 60.0 °C	@Strain 0.250 %, Temperature 140 °F	TPE; ISO 11403-1 -2
	0.480 MPa	69.6 psi	
	@Strain 0.140 %, Temperature 0.000 °C	@Strain 0.140 %, Temperature 32.0 °F	TPE; ISO 11403-1 -2
	0.510 MPa	74.0 psi	
	@Strain 0.120 %, Temperature -20.0 °C	@Strain 0.120 %, Temperature -4.00 °F	TPE; ISO 11403-1 -2
	0.510 MPa	74.0 psi	
	@Strain 0.220 %, Temperature 23.0 °C	@Strain 0.220 %, Temperature 73.4 °F	TPE; ISO 11403-1 -2
	0.570 MPa	82.7 psi	

Mechanical Properties	Metric	English	Comments
	@Strain 0.0700 %, Temperature -40.0 °C	@Strain 0.0700 %, Temperature -40.0 °F	TPE; ISO 11403-1 -2
	0.600 MPa	87.0 psi	
	@Strain 0.250 %, Temperature 0.000 °C	@Strain 0.250 %, Temperature 32.0 °F	TPE; ISO 11403-1 -2
	0.810 MPa	117 psi	
	@Strain 0.240 %, Temperature -20.0 °C	@Strain 0.240 %, Temperature -4.00 °F	TPE; ISO 11403-1 -2
	1.00 MPa	145 psi	
	@Strain 0.150 %, Temperature -40.0 °C	@Strain 0.150 %, Temperature -40.0 °F	TPE; ISO 11403-1 -2
	1.26 MPa	183 psi	
	@Strain 3.31 %, Temperature 150 °C	@Strain 3.31 %, Temperature 302 °F	TPE; ISO 11403-1 -2
	1.37 MPa	199 psi	
	@Strain 0.230 %, Temperature -40.0 °C	@Strain 0.230 %, Temperature -40.0 °F	TPE; ISO 11403-1 -2
	1.41 MPa	205 psi	
	@Strain 1.50 %, Temperature 40.0 °C	@Strain 1.50 %, Temperature 104 °F	TPE; ISO 11403-1 -2
	2.53 MPa	367 psi	
	@Strain 12.19 %, Temperature 150 °C	@Strain 12.19 %, Temperature 302 °F	TPE; ISO 11403-1 -2
	2.64 MPa	383 psi	
	@Strain 5.63 %, Temperature 90.0 °C	@Strain 5.63 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	3.06 MPa	444 psi	
	@Strain 10.48 %, Temperature 120 °C	@Strain 10.48 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	3.17 MPa	460 psi	
	@Strain 21.84 %, Temperature 150 °C	@Strain 21.84 %, Temperature 302 °F	TPE; ISO 11403-1 -2
	3.68 MPa	534 psi	
	@Strain 35.38 %, Temperature 150 °C	@Strain 35.38 %, Temperature 302 °F	TPE; ISO 11403-1 -2
	4.02 MPa	583 psi	
	@Strain 49.12 %, Temperature 150 °C	@Strain 49.12 %, Temperature 302 °F	TPE; ISO 11403-1 -2

Mechanical Properties	Metric	English	Comments
	@Strain 22.58 %, Temperature 120 °C	@Strain 22.58 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	4.28 MPa	621 psi	
	@Strain 62.4 %, Temperature 150 °C	@Strain 62.4 %, Temperature 302 °F	TPE; ISO 11403-1 -2
	4.53 MPa	657 psi	
	@Strain 75.08 %, Temperature 150 °C	@Strain 75.08 %, Temperature 302 °F	TPE; ISO 11403-1 -2
	4.77 MPa	692 psi	
	@Strain 35.5 %, Temperature 120 °C	@Strain 35.5 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	4.86 MPa	705 psi	
	@Strain 92.78 %, Temperature 150 °C	@Strain 92.78 %, Temperature 302 °F	TPE; ISO 11403-1 -2
	5.05 MPa	732 psi	
	@Strain 19.26 %, Temperature 90.0 °C	@Strain 19.26 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	5.07 MPa	735 psi	
	@Strain 103.8 %, Temperature 150 °C	@Strain 103.8 %, Temperature 302 °F	TPE; ISO 11403-1 -2
	5.25 MPa	761 psi	
	@Strain 53.24 %, Temperature 120 °C	@Strain 53.24 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	5.31 MPa	770 psi	
	@Strain 116.84 %, Temperature 150 °C	@Strain 116.84 %, Temperature 302 °F	TPE; ISO 11403-1 -2
	5.62 MPa	815 psi	
	@Strain 70.7 %, Temperature 120 °C	@Strain 70.7 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	5.63 MPa	817 psi	
	@Strain 133.55 %, Temperature 150 °C	@Strain 133.55 %, Temperature 302 °F	TPE; ISO 11403-1 -2
	5.63 MPa	817 psi	
	@Strain 17.19 %, Temperature 60.0 °C	@Strain 17.19 %, Temperature 140 °F	TPE; ISO 11403-1 -2
	5.95 MPa	863 psi	
			TPE; ISO 11403-1 -2

Mechanical Properties	Metric @Strain 87.4 %, Temperature 120 °C	English @Strain 87.4 %, Temperature 248 °F	Comments
	5.97 MPa	866 psi	
	@Strain 150.67 %, Temperature 150 °C	@Strain 150.67 %, Temperature 302 °F	TPE; ISO 11403-1 -2
	6.08 MPa	882 psi	
	@Strain 33.9 %, Temperature 90.0 °C	@Strain 33.9 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	6.27 MPa	909 psi	
	@Strain 103.25 %, Temperature 120 °C	@Strain 103.25 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	6.73 MPa	976 psi	
	@Strain 125.27 %, Temperature 120 °C	@Strain 125.27 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	6.89 MPa	999 psi	
	@Strain 7.88 %, Temperature 23.0 °C	@Strain 7.88 %, Temperature 73.4 °F	TPE; ISO 11403-1 -2
	6.90 MPa	1000 psi	
	@Strain 53.74 %, Temperature 90.0 °C	@Strain 53.74 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	7.03 MPa	1020 psi	
	@Strain 138.82 %, Temperature 120 °C	@Strain 138.82 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	7.36 MPa	1070 psi	
	@Strain 37.94 %, Temperature 60.0 °C	@Strain 37.94 %, Temperature 140 °F	TPE; ISO 11403-1 -2
	7.38 MPa	1070 psi	
	@Strain 154.66 %, Temperature 120 °C	@Strain 154.66 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	7.54 MPa	1090 psi	
	@Strain 73.17 %, Temperature 90.0 °C	@Strain 73.17 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	7.86 MPa	1140 psi	
	@Strain 174.81 %, Temperature 120 °C	@Strain 174.81 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	7.87 MPa	1140 psi	
	@Strain 24.3 %, Temperature 40.0 °C	@Strain 24.3 %, Temperature 104 °F	TPE; ISO 11403-1 -2

Mechanical Properties	8.12 MPa Metric	1180 psi English	Comments
	@Strain 91.47 %, Temperature 90.0 °C	@Strain 91.47 %, Temperature 194 °F	
	8.27 MPa	1200 psi	
	@Strain 59.11 %, Temperature 60.0 °C	@Strain 59.11 %, Temperature 140 °F	TPE; ISO 11403-1 -2
	8.36 MPa	1210 psi	
	@Strain 195.3 %, Temperature 120 °C	@Strain 195.3 %, Temperature 248 °F	TPE; ISO 11403-1 -2

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