

DuPont Performance Polymers Hytrel® HTR4275 BK316 Polyester Elastomer TPC-ET (Unverified Data**)

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

Material Notes:

55 Shore D High Viscosity Polyester Elastomer with Good Heat Ageing Protection Developed for Blow Molding Hytrel HTR4275 BK316 is designed for blow molding or processing techniques requiring high melt viscosity. It has nominal hardness of 55D is pigmenInformation provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Hytrel-HTR4275-BK316-Polyester-Elastomer-TPC-ET-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.00 g/cc	0.0361 lb/in ³	
	1.17 g/cc	0.0423 lb/in ³	ISO 1183
Water Absorption	0.50 %	0.50 %	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	0.50 %	0.50 %	Immersion 24h; ASTM D570
Viscosity	103300 cP	103300 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 250 °C	@Shear Rate 5000 1/s, Temperature 482 °F	
	115740 cP	115740 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 240 °C	@Shear Rate 5000 1/s, Temperature 464 °F	
	130910 cP	130910 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 230 °C	@Shear Rate 5000 1/s, Temperature 446 °F	
	454900 cP	454900 cP	ISO 11403-1 -2
	@Shear Rate 500 1/s, Temperature 250 °C	@Shear Rate 500 1/s, Temperature 482 °F	
	513300 cP	513300 cP	ISO 11403-1 -2
	@Shear Rate 500 1/s, Temperature 240 °C	@Shear Rate 500 1/s, Temperature 464 °F	
	583900 cP	583900 cP	ISO 11403-1 -2
	@Shear Rate 500 1/s,	@Shear Rate 500 1/s,	

Physical Properties	Temperature 230 °C Metric	Temperature 446 °F English	Comments
Linear Mold Shrinkage, Flow	0.017 cm/cm	0.017 in/in	ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.019 cm/cm	0.019 in/in	ISO 294-4 2577
Melt Flow	6.0 g/10 min	6.0 g/10 min	cm ³ /10min; ISO 1133
	@Load 10.0 kg, Temperature 230 °C	@Load 22.0 lb, Temperature 446 °F	
	6.0 g/10 min	6.0 g/10 min	ISO 1133
	@Load 10.0 kg, Temperature 230 °C	@Load 22.0 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	52	52	15s; ISO 868
	<= 55	<= 55	ISO 868
Tensile Strength at Break	37.0 MPa	5370 psi	ISO 527-1/-2
Tensile Stress	6.70 MPa	972 psi	ISO 527-1/-2
	@Strain 5.00 %	@Strain 5.00 %	
	10.4 MPa	1510 psi	ISO 527-1/-2
	@Strain 10.0 %	@Strain 10.0 %	
	17.0 MPa	2470 psi	ISO 527-1/-2
	@Strain 50.0 %	@Strain 50.0 %	
	21.0 MPa	3050 psi	ISO 527-1/-2
	@Strain 100 %	@Strain 100 %	
	2.53 MPa	367 psi	TPE; ISO 11403-1 -2
	@Strain 4.51 %, Temperature 120 °C	@Strain 4.51 %, Temperature 248 °F	
	2.54 MPa	368 psi	TPE; ISO 11403-1 -2
	@Strain 3.88 %, Temperature 100 °C	@Strain 3.88 %, Temperature 212 °F	
	3.78 MPa	548 psi	TPE; ISO 11403-1 -2
	@Strain 5.25 %, Temperature 90.0 °C	@Strain 5.25 %, Temperature 194 °F	
	3.80 MPa	551 psi	TPE; ISO 11403-1 -2
	@Strain 16.33 %, Temperature 160 °C	@Strain 16.33 %, Temperature 320 °F	

Mechanical Properties	4.65 MPa Metric	674 psi English	Comments TPE; ISO 11403-1 -2
	@Strain 11.14 %, Temperature 120 °C	@Strain 11.14 %, Temperature 248 °F	
	4.70 MPa	682 psi	TPE; ISO 11403-1 -2
	@Strain 29.42 %, Temperature 160 °C	@Strain 29.42 %, Temperature 320 °F	
	5.01 MPa	727 psi	TPE; ISO 11403-1 -2
	@Strain 9.86 %, Temperature 100 °C	@Strain 9.86 %, Temperature 212 °F	
	5.27 MPa	764 psi	TPE; ISO 11403-1 -2
	@Strain 42.77 %, Temperature 160 °C	@Strain 42.77 %, Temperature 320 °F	
	5.76 MPa	835 psi	TPE; ISO 11403-1 -2
	@Strain 56.03 %, Temperature 160 °C	@Strain 56.03 %, Temperature 320 °F	
	5.83 MPa	846 psi	TPE; ISO 11403-1 -2
	@Strain 17.76 %, Temperature 120 °C	@Strain 17.76 %, Temperature 248 °F	
	5.89 MPa	854 psi	TPE; ISO 11403-1 -2
	@Strain 6.53 %, Temperature 60.0 °C	@Strain 6.53 %, Temperature 140 °F	
	6.21 MPa	901 psi	TPE; ISO 11403-1 -2
	@Strain 68.93 %, Temperature 160 °C	@Strain 68.93 %, Temperature 320 °F	
	6.50 MPa	943 psi	TPE; ISO 11403-1 -2
	@Strain 15.83 %, Temperature 100 °C	@Strain 15.83 %, Temperature 212 °F	
	6.55 MPa	950 psi	TPE; ISO 11403-1 -2
	@Strain 24.38 %, Temperature 120 °C	@Strain 24.38 %, Temperature 248 °F	
	6.57 MPa	953 psi	TPE; ISO 11403-1 -2
	@Strain 12.05 %, Temperature 90.0 °C	@Strain 12.05 %, Temperature 194 °F	
	6.80 MPa	986 psi	TPE; ISO 11403-1 -2
	@Strain 85.36 %, Temperature 160 °C	@Strain 85.36 %, Temperature 320 °F	
	7.05 MPa	1020 psi	TPE; ISO 11403-1 -2
	@Strain 31.0 %,	@Strain 31.0 %,	

Mechanical Properties	Temperature 120 °C Metric	Temperature 248 °F English	Comments
	7.33 MPa @Strain 100.05 %, Temperature 160 °C	1060 psi @Strain 100.05 %, Temperature 320 °F	TPE; ISO 11403-1 -2
	7.44 MPa @Strain 21.8 %, Temperature 100 °C	1080 psi @Strain 21.8 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	7.52 MPa @Strain 6.47 %, Temperature 40.0 °C	1090 psi @Strain 6.47 %, Temperature 104 °F	TPE; ISO 11403-1 -2
	7.54 MPa @Strain 108.54 %, Temperature 160 °C	1090 psi @Strain 108.54 %, Temperature 320 °F	TPE; ISO 11403-1 -2
	7.55 MPa @Strain 40.03 %, Temperature 120 °C	1100 psi @Strain 40.03 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	7.73 MPa @Strain 116.86 %, Temperature 160 °C	1120 psi @Strain 116.86 %, Temperature 320 °F	TPE; ISO 11403-1 -2
	7.91 MPa @Strain 48.45 %, Temperature 120 °C	1150 psi @Strain 48.45 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	7.97 MPa @Strain 127.94 %, Temperature 160 °C	1160 psi @Strain 127.94 %, Temperature 320 °F	TPE; ISO 11403-1 -2
	8.03 MPa @Strain 27.18 %, Temperature 100 °C	1160 psi @Strain 27.18 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	8.09 MPa @Strain 135.33 %, Temperature 160 °C	1170 psi @Strain 135.33 %, Temperature 320 °F	TPE; ISO 11403-1 -2
	8.19 MPa @Strain 19.46 %, Temperature 90.0 °C	1190 psi @Strain 19.46 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	8.21 MPa @Strain 145.5 %, Temperature 160 °C	1190 psi @Strain 145.5 %, Temperature 320 °F	TPE; ISO 11403-1 -2
	8.29 MPa	1200 psi	

Mechanical Properties	Metric	English	Comments
	@Strain 57.48 %, Temperature 120 °C	@Strain 57.48 %, Temperature 248 °F	11403-1 -2
	8.63 MPa	1250 psi	TPE; ISO 11403-1 -2
	@Strain 66.51 %, Temperature 120 °C	@Strain 66.51 %, Temperature 248 °F	
	8.64 MPa	1250 psi	TPE; ISO 11403-1 -2
	@Strain 34.94 %, Temperature 100 °C	@Strain 34.94 %, Temperature 212 °F	
	9.12 MPa	1320 psi	TPE; ISO 11403-1 -2
	@Strain 42.71 %, Temperature 100 °C	@Strain 42.71 %, Temperature 212 °F	
	9.12 MPa	1320 psi	TPE; ISO 11403-1 -2
	@Strain 79.75 %, Temperature 120 °C	@Strain 79.75 %, Temperature 248 °F	
	9.13 MPa	1320 psi	TPE; ISO 11403-1 -2
	@Strain 26.87 %, Temperature 90.0 °C	@Strain 26.87 %, Temperature 194 °F	
	9.41 MPa	1360 psi	TPE; ISO 11403-1 -2
	@Strain 88.18 %, Temperature 120 °C	@Strain 88.18 %, Temperature 248 °F	
	9.53 MPa	1380 psi	TPE; ISO 11403-1 -2
	@Strain 50.47 %, Temperature 100 °C	@Strain 50.47 %, Temperature 212 °F	
	9.59 MPa	1390 psi	TPE; ISO 11403-1 -2
	@Strain 14.98 %, Temperature 60.0 °C	@Strain 14.98 %, Temperature 140 °F	
	9.69 MPa	1410 psi	TPE; ISO 11403-1 -2
	@Strain 33.67 %, Temperature 90.0 °C	@Strain 33.67 %, Temperature 194 °F	
	9.79 MPa	1420 psi	TPE; ISO 11403-1 -2
	@Strain 99.02 %, Temperature 120 °C	@Strain 99.02 %, Temperature 248 °F	
	9.90 MPa	1440 psi	TPE; ISO 11403-1 -2
	@Strain 58.24 %, Temperature 100 °C	@Strain 58.24 %, Temperature 212 °F	
	10.3 MPa	1490 psi	TPE; ISO 11403-1 -2
	@Strain 43.55 %,	@Strain 43.55 %,	

Mechanical Properties	Temperature 90.0 °C Metric	Temperature 194 °F English	Comments
	16.31 MPa	1493 psi	
	@Strain 114.67 %, Temperature 120 °C	@Strain 114.67 %, Temperature 248 °F	TPE; ISO 11403-1 -2

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China