DuPont Performance Polymers Hytrel® 6356 Polyester Elastomer TPC-ET (Unverified Data**)

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

Material Notes:

63 Shore D High Performance Polyester ElastomerInformation provided by DuPont Performance Polymers

Order this product through the following link:
http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Hytrel-6356-Polyester-Elastomer-TPC-ET-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.06 g/cc	0.0383 lb/in³	
	1.22 g/cc	0.0441 lb/in³	ISO 1183
Water Absorption	0.60 % @Thickness 2.00 mm	0.60 % @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
Water Absorption at Saturation	0.50 %	0.50 %	Immersion 24h; ASTM D570
Viscosity	79580 cP @Shear Rate 5000 1/s, Temperature 250 °C	79580 cP @Shear Rate 5000 1/s, Temperature 482 °F	ISO 11403-1 -2
	87700 cP @Shear Rate 5000 1/s, Temperature 240 °C	87700 cP @Shear Rate 5000 1/s, Temperature 464 °F	ISO 11403-1 -2
	97070 cP @Shear Rate 5000 1/s, Temperature 230 °C	97070 cP @Shear Rate 5000 1/s, Temperature 446 °F	ISO 11403-1 -2
	282300 cP @Shear Rate 500 1/s, Temperature 250 °C	282300 cP @Shear Rate 500 1/s, Temperature 482 °F	ISO 11403-1 -2
	333010 cP @Shear Rate 500 1/s, Temperature 240 °C	333010 cP @Shear Rate 500 1/s, Temperature 464 °F	ISO 11403-1 -2
	392200 cP @Shear Rate 500 1/s, Temperature 230 °C	392200 cP @Shear Rate 500 1/s, Temperature 446 °F	ISO 11403-1 -2
Linear Mold Shrinkage, Flow	0.015 cm/cm	0.015 in/in	ISO 294-4 2577

Physical Properties	Metric	English	Comments
Linear Mold Shrinkage, Transverse	0.015 cm/cm	0.015 in/in	ISO 294-4 2577
Melt Flow	8.5 g/10 min @Load 2.16 kg, Temperature 230 °C	8.5 g/10 min @Load 4.76 lb, Temperature 446 °F	cm³/10min; ISO 1133
	9.0 g/10 min @Load 2.16 kg, Temperature 230 °C	9.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	57	57	15s; ISO 868
	<= 63	<= 63	ISO 868
Tensile Strength at Break	43.0 MPa	6240 psi	ISO 527-1/-2
Tensile Stress	12.0 MPa @Strain 5.00 %	1740 psi @Strain 5.00 %	ISO 527-1/-2
	15.0 MPa @Strain 10.0 %	2180 psi @Strain 10.0 %	ISO 527-1/-2
	18.8 MPa @Strain 50.0 %	2730 psi @Strain 50.0 %	ISO 527-1/-2
	19.0 MPa @Strain 100 %	2760 psi @Strain 100 %	ISO 527-1/-2
	2.93 MPa @Strain 5.00 %, Temperature 150 °C	425 psi @Strain 5.00 %, Temperature 302 °F	ISO 11403-1 -2
	4.62 MPa @Strain 7.11 %, Temperature 150 °C	670 psi @Strain 7.11 %, Temperature 302 °F	TPE; ISO 11403-1 -2
	5.47 MPa @Strain 20.0 %, Temperature 150 °C	793 psi @Strain 20.0 %, Temperature 302 °F	ISO 11403-1 -2
	5.51 MPa @Strain 7.29 %, Temperature 120 °C	799 psi @Strain 7.29 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	6.18 MPa @Strain 17.14 %, Temperature 150 °C	896 psi @Strain 17.14 %, Temperature 302 °F	TPE; ISO 11403-1 -2

Mechanical Properties	Metric	English	Comments
	6.28 MPa @Strain 6.97 %, Temperature 100 °C	935 psi @Strain 6.97 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	6.50 MPa @Strain 26.33 %, Temperature 150 °C	943 psi @Strain 26.33 %, Temperature 302 °F	TPE; ISO 11403-1 -2
	6.53 MPa @Strain 36.36 %, Temperature 150 °C	947 psi @Strain 36.36 %, Temperature 302 °F	TPE; ISO 11403-1 -2
	6.53 MPa @Strain 46.39 %, Temperature 150 °C	947 psi @Strain 46.39 %, Temperature 302 °F	TPE; ISO 11403-1 -2
	6.57 MPa @Strain 58.93 %, Temperature 150 °C	953 psi @Strain 58.93 %, Temperature 302 °F	TPE; ISO 11403-1 -2
	6.62 MPa @Strain 72.3 %, Temperature 150 °C	960 psi @Strain 72.3 %, Temperature 302 °F	TPE; ISO 11403-1 -2
	6.68 MPa @Strain 85.68 %, Temperature 150 °C	969 psi @Strain 85.68 %, Temperature 302 °F	TPE; ISO 11403-1 -2
	6.75 MPa @Strain 98.22 %, Temperature 150 °C	979 psi @Strain 98.22 %, Temperature 302 °F	TPE; ISO 11403-1 -2
	6.98 MPa @Strain 118.28 %, Temperature 150 °C	1010 psi @Strain 118.28 %, Temperature 302 °F	TPE; ISO 11403-1 -2
	7.12 MPa @Strain 130.82 %, Temperature 150 °C	1030 psi @Strain 130.82 %, Temperature 302 °F	TPE; ISO 11403-1 -2
	7.17 MPa @Strain 7.11 %, Temperature 90.0 °C	1040 psi @Strain 7.11 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	7.51 MPa @Strain 147.53 %, Temperature 150 °C	1090 psi @Strain 147.53 %, Temperature 302 °F	TPE; ISO 11403-1 -2
	7.65 MPa @Strain 17.27 %,	1110 psi @Strain 17.27 %,	TPE; ISO 11403-1 -2

Mechanical Properties	Temperature 120 °C Metric	Temperature 248 °F English	Comments
	8.26 MPa @Strain 27.24 %, Temperature 120 °C	1200 psi @Strain 27.24 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	8.38 MPa @Strain 37.22 %, Temperature 120 °C	1220 psi @Strain 37.22 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	8.40 MPa @Strain 47.19 %, Temperature 120 °C	1220 psi @Strain 47.19 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	8.47 MPa @Strain 60.24 %, Temperature 120 °C	1230 psi @Strain 60.24 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	8.61 MPa @Strain 74.05 %, Temperature 120 °C	1250 psi @Strain 74.05 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	8.74 MPa @Strain 87.1 %, Temperature 120 °C	1270 psi @Strain 87.1 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	8.89 MPa @Strain 100.14 %, Temperature 120 °C	1290 psi @Strain 100.14 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	8.92 MPa @Strain 6.99 %, Temperature 60.0 °C	1290 psi @Strain 6.99 %, Temperature 140 °F	TPE; ISO 11403-1 -2
	9.08 MPa @Strain 5.00 %, Temperature 23.0 °C	1320 psi @Strain 5.00 %, Temperature 73.4 °F	ISO 11403-1 -2
	9.15 MPa @Strain 120.1 %, Temperature 120 °C	1330 psi @Strain 120.1 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	9.16 MPa @Strain 17.23 %, Temperature 100 °C	1330 psi @Strain 17.23 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	9.42 MPa @Strain 133.91 %, Temperature 120 °C	1370 psi @Strain 133.91 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	9.84 MPa	1430 psi	

Mechanical Properties	Metric	English	Comments
	@Strain 26.77 %, Temperature 100 °C	@Strain 26.77 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	9.94 MPa @Strain 150.02 %, Temperature 120 °C	1440 psi @Strain 150.02 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	9.98 MPa @Strain 47.3 %, Temperature 100 °C	1450 psi @Strain 47.3 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	10.0 MPa @Strain 37.03 %, Temperature 100 °C	1450 psi @Strain 37.03 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	10.04 MPa @Strain 60.5 %, Temperature 100 °C	1456 psi @Strain 60.5 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	10.05 MPa @Strain 16.83 %, Temperature 90.0 °C	1458 psi @Strain 16.83 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	10.2 MPa @Strain 73.7 %, Temperature 100 °C	1480 psi @Strain 73.7 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	10.35 MPa @Strain 86.9 %, Temperature 100 °C	1501 psi @Strain 86.9 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	10.51 MPa @Strain 100.1 %, Temperature 100 °C	1524 psi @Strain 100.1 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	10.79 MPa @Strain 27.31 %, Temperature 90.0 °C	1565 psi @Strain 27.31 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	10.81 MPa @Strain 120.63 %, Temperature 100 °C	1568 psi @Strain 120.63 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	10.82 MPa @Strain 46.76 %, Temperature 90.0 °C	1569 psi @Strain 46.76 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	10.88 MPa @Strain 37.04 %, Temperature 90.0 °C	1578 psi @Strain 37.04 %, Temperature 194 °F	TPE; ISO 11403-1 -2

Mechanical Properties	Metric	English	Comments
	@Strain 60.23 %, Temperature 90.0 °C	@Strain 60.23 %, Temperature 194 °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