

## DuPont Performance Polymers Hytrel® G4774 Polyester Elastomer TPC-ET (Unverified Data\*\*)

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

### Material Notes:

47 Shore D Standard Performance Polyester Elastomer with Heat Ageing Protection Hytrel G4774 is a medium modulus grade with nominal hardness of 47D. It contains discoloring stabilizer. It can be processed by many conventional thermoplastic processing information provided by DuPont Performance Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Performance-Polymers-Hytrel-G4774-Polyester-Elastomer-TPC-ET-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Hytrel-G4774-Polyester-Elastomer-TPC-ET-nbspUnverified-Data.php)

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in <sup>3</sup>	
	1.19 g/cc	0.0430 lb/in <sup>3</sup>	ISO 1183
Water Absorption at Saturation	2.5 %	2.5 %	Immersion 24h; ASTM D570
Viscosity	47110 cP	47110 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 250 °C	@Shear Rate 5000 1/s, Temperature 482 °F	
	51280 cP	51280 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 240 °C	@Shear Rate 5000 1/s, Temperature 464 °F	
	56080 cP	56080 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 230 °C	@Shear Rate 5000 1/s, Temperature 446 °F	
161300 cP	161300 cP	161300 cP	ISO 11403-1 -2
	@Shear Rate 500 1/s, Temperature 250 °C	@Shear Rate 500 1/s, Temperature 482 °F	
	180700 cP	180700 cP	
180700 cP	180700 cP	180700 cP	ISO 11403-1 -2
	@Shear Rate 500 1/s, Temperature 240 °C	@Shear Rate 500 1/s, Temperature 464 °F	
	203000 cP	203000 cP	
203000 cP	203000 cP	203000 cP	ISO 11403-1 -2
	@Shear Rate 500 1/s, Temperature 230 °C	@Shear Rate 500 1/s, Temperature 446 °F	
	Linear Mold Shrinkage, Flow	0.015 cm/cm	
Linear Mold Shrinkage, Transverse	0.012 cm/cm	0.012 in/in	ISO 294-4 2577
	11 g/10 min	11 g/10 min	

Melt Flow Physical Properties	Metric	English	cm <sup>3</sup> /10min: ISO 1133 Comments
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	
	11 g/10 min	11 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	43	43	15s; ISO 868
	<= 48	<= 48	ISO 868
Tensile Strength at Break	17.0 MPa	2470 psi	ISO 527-1/-2
Tensile Stress	7.00 MPa	1020 psi	ISO 527-1/-2
	@Strain 10.0 %	@Strain 10.0 %	
	12.0 MPa	1740 psi	ISO 527-1/-2
	@Strain 50.0 %	@Strain 50.0 %	
	2.79 MPa	405 psi	TPE; ISO 11403-1 -2
	@Strain 6.87 %, Temperature 120 °C	@Strain 6.87 %, Temperature 248 °F	
	3.01 MPa	437 psi	TPE; ISO 11403-1 -2
	@Strain 6.85 %, Temperature 100 °C	@Strain 6.85 %, Temperature 212 °F	
	3.32 MPa	482 psi	ISO 11403-1 -2
	@Strain 6.00 %, Temperature 90.0 °C	@Strain 6.00 %, Temperature 194 °F	
	3.41 MPa	495 psi	TPE; ISO 11403-1 -2
	@Strain 6.98 %, Temperature 90.0 °C	@Strain 6.98 %, Temperature 194 °F	
	3.98 MPa	577 psi	TPE; ISO 11403-1 -2
	@Strain 6.86 %, Temperature 60.0 °C	@Strain 6.86 %, Temperature 140 °F	
	4.41 MPa	640 psi	TPE; ISO 11403-1 -2
	@Strain 16.67 %, Temperature 120 °C	@Strain 16.67 %, Temperature 248 °F	
	4.64 MPa	673 psi	TPE; ISO 11403-1 -2
	@Strain 6.29 %, Temperature 40.0 °C	@Strain 6.29 %, Temperature 104 °F	
	4.86 MPa	705 psi	

Mechanical Properties	Metric	English	Comments
	@Strain 16.95 %, Temperature 100 °C	@Strain 16.95 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	<b>4.94 MPa</b>	<b>716 psi</b>	
	@Strain 6.00 %, Temperature 40.0 °C	@Strain 6.00 %, Temperature 104 °F	ISO 11403-1 -2
	<b>5.10 MPa</b>	<b>740 psi</b>	
	@Strain 6.00 %, Temperature 23.0 °C	@Strain 6.00 %, Temperature 73.4 °F	ISO 11403-1 -2
	<b>5.13 MPa</b>	<b>744 psi</b>	
	@Strain 27.14 %, Temperature 120 °C	@Strain 27.14 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	<b>5.47 MPa</b>	<b>793 psi</b>	
	@Strain 36.95 %, Temperature 120 °C	@Strain 36.95 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	<b>5.56 MPa</b>	<b>806 psi</b>	
	@Strain 6.52 %, Temperature 23.0 °C	@Strain 6.52 %, Temperature 73.4 °F	TPE; ISO 11403-1 -2
	<b>5.60 MPa</b>	<b>812 psi</b>	
	@Strain 17.63 %, Temperature 90.0 °C	@Strain 17.63 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	<b>5.67 MPa</b>	<b>822 psi</b>	
	@Strain 27.04 %, Temperature 100 °C	@Strain 27.04 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	<b>5.68 MPa</b>	<b>824 psi</b>	
	@Strain 46.75 %, Temperature 120 °C	@Strain 46.75 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	<b>5.92 MPa</b>	<b>859 psi</b>	
	@Strain 60.49 %, Temperature 120 °C	@Strain 60.49 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	<b>6.12 MPa</b>	<b>888 psi</b>	
	@Strain 73.56 %, Temperature 120 °C	@Strain 73.56 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	<b>6.12 MPa</b>	<b>888 psi</b>	
	@Strain 37.14 %, Temperature 100 °C	@Strain 37.14 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	<b>6.25 MPa</b>	<b>906 psi</b>	
	@Strain 6.00 %, Temperature 0.000 °C	@Strain 6.00 %, Temperature 32.0 °F	ISO 11403-1 -2

Mechanical Properties	Metric Pa	English	Comments
	@Strain 24.0 %, Temperature 90.0 °C	@Strain 24.0 %, Temperature 194 °F	ISO 11403-1 -2
	<b>6.33 MPa</b>	<b>918 psi</b>	
	@Strain 87.3 %, Temperature 120 °C	@Strain 87.3 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	<b>6.43 MPa</b>	<b>933 psi</b>	
	@Strain 47.23 %, Temperature 100 °C	@Strain 47.23 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	<b>6.46 MPa</b>	<b>937 psi</b>	
	@Strain 16.66 %, Temperature 60.0 °C	@Strain 16.66 %, Temperature 140 °F	TPE; ISO 11403-1 -2
	<b>6.49 MPa</b>	<b>941 psi</b>	
	@Strain 6.95 %, Temperature 0.000 °C	@Strain 6.95 %, Temperature 32.0 °F	TPE; ISO 11403-1 -2
	<b>6.50 MPa</b>	<b>943 psi</b>	
	@Strain 28.27 %, Temperature 90.0 °C	@Strain 28.27 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	<b>6.54 MPa</b>	<b>949 psi</b>	
	@Strain 100.37 %, Temperature 120 °C	@Strain 100.37 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	<b>6.75 MPa</b>	<b>979 psi</b>	
	@Strain 60.21 %, Temperature 100 °C	@Strain 60.21 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	<b>6.87 MPa</b>	<b>996 psi</b>	
	@Strain 120.64 %, Temperature 120 °C	@Strain 120.64 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	<b>6.97 MPa</b>	<b>1010 psi</b>	
	@Strain 38.25 %, Temperature 90.0 °C	@Strain 38.25 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	<b>7.05 MPa</b>	<b>1020 psi</b>	
	@Strain 73.91 %, Temperature 100 °C	@Strain 73.91 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	<b>7.06 MPa</b>	<b>1020 psi</b>	
	@Strain 42.0 %, Temperature 90.0 °C	@Strain 42.0 %, Temperature 194 °F	ISO 11403-1 -2
	<b>7.11 MPa</b>	<b>1030 psi</b>	

Mechanical Properties	Metric @Strain 133.72 %, Temperature 120 °C	English @Strain 133.72 %, Temperature 248 °F	TPE; ISO 11403-1 -2 Comments
	7.32 MPa	1060 psi	
	@Strain 48.89 %, Temperature 90.0 °C	@Strain 48.89 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	7.34 MPa	1060 psi	
	@Strain 86.89 %, Temperature 100 °C	@Strain 86.89 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	7.41 MPa	1070 psi	
	@Strain 150.07 %, Temperature 120 °C	@Strain 150.07 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	7.55 MPa	1100 psi	
	@Strain 26.45 %, Temperature 60.0 °C	@Strain 26.45 %, Temperature 140 °F	TPE; ISO 11403-1 -2
	7.61 MPa	1100 psi	
	@Strain 15.56 %, Temperature 40.0 °C	@Strain 15.56 %, Temperature 104 °F	TPE; ISO 11403-1 -2
	7.66 MPa	1110 psi	
	@Strain 100.59 %, Temperature 100 °C	@Strain 100.59 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	7.69 MPa	1120 psi	
	@Strain 62.86 %, Temperature 90.0 °C	@Strain 62.86 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	7.81 MPa	1130 psi	
	@Strain 6.00 %, Temperature -20.0 °C	@Strain 6.00 %, Temperature -4.00 °F	ISO 11403-1 -2
	7.84 MPa	1140 psi	
	@Strain 173.61 %, Temperature 120 °C	@Strain 173.61 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	8.03 MPa	1160 psi	
	@Strain 76.83 %, Temperature 90.0 °C	@Strain 76.83 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	8.11 MPa	1180 psi	
	@Strain 120.06 %, Temperature 100 °C	@Strain 120.06 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	8.17 MPa	1180 psi	
	@Strain 36.25 %, Temperature 60.0 °C	@Strain 36.25 %, Temperature 140 °F	TPE; ISO 11403-1 -2

Mechanical Properties	8.32 MPa Metric	1210 psi English	Comments TPE; ISO 11403-1 -2
	@Strain 200.42 %, Temperature 120 °C	@Strain 200.42 %, Temperature 248 °F	
	8.35 MPa	1210 psi	TPE; ISO 11403-1 -2
	@Strain 90.14 %, Temperature 90.0 °C	@Strain 90.14 %, Temperature 194 °F	

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