

## DuPont Performance Polymers Hytrel® G4074 Polyester Elastomer TPC-ET (Unverified Data\*\*)

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

### Material Notes:

40 Shore D Standard Performance Polyester Elastomer with Heat Ageing Protection Hytrel G4074 is a low modulus grade with nominal hardness of 40D. It contains discoloring stabilizer. It can be processed by many conventional thermoplastic processing techniques. Information provided by DuPont Performance Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Performance-Polymers-Hytrel-G4074-Polyester-Elastomer-TPC-ET-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Hytrel-G4074-Polyester-Elastomer-TPC-ET-nbspUnverified-Data.php)

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in <sup>3</sup>	
	1.18 g/cc	0.0426 lb/in <sup>3</sup>	ISO 1183
Water Absorption	3.7 %	3.7 %	Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Moisture Absorption	0.400 %	0.400 %	Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Water Absorption at Saturation	2.1 %	2.1 %	Immersion 24h; ASTM D570
Viscosity	67967 cP	67967 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 200 °C	@Shear Rate 5000 1/s, Temperature 392 °F	
	81258 cP	81258 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 185 °C	@Shear Rate 5000 1/s, Temperature 365 °F	
	281800 cP	281800 cP	ISO 11403-1 -2
	@Shear Rate 500 1/s, Temperature 200 °C	@Shear Rate 500 1/s, Temperature 392 °F	
	346800 cP	346800 cP	ISO 11403-1 -2
	@Shear Rate 500 1/s, Temperature 185 °C	@Shear Rate 500 1/s, Temperature 365 °F	
Linear Mold Shrinkage, Flow	0.0080 cm/cm	0.0080 in/in	ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ISO 294-4 2577
Melt Flow	5.0 g/10 min	5.0 g/10 min	cm <sup>3</sup> /10min; ISO 1133
	@Load 2.16 kg,	@Load 4.76 lb,	

Physical Properties	Temperature 190 °C Metric	Temperature 374 °F English	Comments
	5.3 g/10 min	5.3 g/10 min	
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	35	35	15s; ISO 868
	<= 40	<= 40	ISO 868
Tensile Strength at Break	20.0 MPa	2900 psi	ISO 527-1/-2
Tensile Stress	2.50 MPa	363 psi	ISO 527-1/-2
	@Strain 5.00 %	@Strain 5.00 %	
	4.40 MPa	638 psi	ISO 527-1/-2
	@Strain 10.0 %	@Strain 10.0 %	
	8.00 MPa	1160 psi	ISO 527-1/-2
	@Strain 50.0 %	@Strain 50.0 %	
	1.34 MPa	194 psi	TPE; ISO 11403-1 -2
	@Strain 6.82 %, Temperature 120 °C	@Strain 6.82 %, Temperature 248 °F	
	1.52 MPa	220 psi	TPE; ISO 11403-1 -2
	@Strain 5.88 %, Temperature 100 °C	@Strain 5.88 %, Temperature 212 °F	
	1.53 MPa	222 psi	ISO 11403-1 -2
	@Strain 6.00 %, Temperature 90.0 °C	@Strain 6.00 %, Temperature 194 °F	
	1.78 MPa	258 psi	TPE; ISO 11403-1 -2
	@Strain 6.36 %, Temperature 90.0 °C	@Strain 6.36 %, Temperature 194 °F	
	2.16 MPa	313 psi	TPE; ISO 11403-1 -2
	@Strain 16.56 %, Temperature 120 °C	@Strain 16.56 %, Temperature 248 °F	
	2.20 MPa	319 psi	TPE; ISO 11403-1 -2
	@Strain 6.30 %, Temperature 60.0 °C	@Strain 6.30 %, Temperature 140 °F	
	2.57 MPa	373 psi	TPE; ISO 11403-1 -2
	@Strain 14.17 %, Temperature 100 °C	@Strain 14.17 %, Temperature 212 °F	

Mechanical Properties	Metric	English	Comments
	@Strain 26.3 %, Temperature 120 °C	@Strain 26.3 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	<b>2.60 MPa</b>	<b>377 psi</b>	
	@Strain 6.00 %, Temperature 40.0 °C	@Strain 6.00 %, Temperature 104 °F	ISO 11403-1 -2
	<b>2.79 MPa</b>	<b>405 psi</b>	
	@Strain 6.00 %, Temperature 23.0 °C	@Strain 6.00 %, Temperature 73.4 °F	ISO 11403-1 -2
	<b>2.84 MPa</b>	<b>412 psi</b>	
	@Strain 36.05 %, Temperature 120 °C	@Strain 36.05 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	<b>2.95 MPa</b>	<b>428 psi</b>	
	@Strain 6.60 %, Temperature 40.0 °C	@Strain 6.60 %, Temperature 104 °F	TPE; ISO 11403-1 -2
	<b>2.99 MPa</b>	<b>434 psi</b>	
	@Strain 15.33 %, Temperature 90.0 °C	@Strain 15.33 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	<b>3.03 MPa</b>	<b>439 psi</b>	
	@Strain 45.79 %, Temperature 120 °C	@Strain 45.79 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	<b>3.16 MPa</b>	<b>458 psi</b>	
	@Strain 22.47 %, Temperature 100 °C	@Strain 22.47 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	<b>3.18 MPa</b>	<b>461 psi</b>	
	@Strain 24.0 %, Temperature 90.0 °C	@Strain 24.0 %, Temperature 194 °F	ISO 11403-1 -2
	<b>3.23 MPa</b>	<b>468 psi</b>	
	@Strain 59.43 %, Temperature 120 °C	@Strain 59.43 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	<b>3.35 MPa</b>	<b>486 psi</b>	
	@Strain 5.86 %, Temperature 23.0 °C	@Strain 5.86 %, Temperature 73.4 °F	TPE; ISO 11403-1 -2
	<b>3.38 MPa</b>	<b>490 psi</b>	
	@Strain 72.42 %, Temperature 120 °C	@Strain 72.42 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	<b>3.50 MPa</b>	<b>508 psi</b>	
			TPE; ISO 11403-1 -2

Mechanical Properties	@Strain 85.41 %, Metric Temperature 120 °C	@Strain 85.41 %, English Temperature 248 °F	Comments
	3.57 MPa	518 psi	
	@Strain 31.45 %, Temperature 100 °C	@Strain 31.45 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	3.60 MPa	522 psi	
	@Strain 23.55 %, Temperature 90.0 °C	@Strain 23.55 %, Temperature 194 °F	TPE; ISO 11403-1 -2
	3.60 MPa	522 psi	
	@Strain 98.4 %, Temperature 120 °C	@Strain 98.4 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	3.65 MPa	529 psi	
	@Strain 6.00 %, Temperature 0.000 °C	@Strain 6.00 %, Temperature 32.0 °F	ISO 11403-1 -2
	3.66 MPa	531 psi	
	@Strain 14.45 %, Temperature 60.0 °C	@Strain 14.45 %, Temperature 140 °F	TPE; ISO 11403-1 -2
	3.69 MPa	535 psi	
	@Strain 42.0 %, Temperature 90.0 °C	@Strain 42.0 %, Temperature 194 °F	ISO 11403-1 -2
	3.71 MPa	538 psi	
	@Strain 117.88 %, Temperature 120 °C	@Strain 117.88 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	3.78 MPa	548 psi	
	@Strain 130.87 %, Temperature 120 °C	@Strain 130.87 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	3.80 MPa	551 psi	
	@Strain 5.85 %, Temperature 0.000 °C	@Strain 5.85 %, Temperature 32.0 °F	TPE; ISO 11403-1 -2
	3.84 MPa	557 psi	
	@Strain 147.11 %, Temperature 120 °C	@Strain 147.11 %, Temperature 248 °F	TPE; ISO 11403-1 -2
	3.84 MPa	557 psi	
	@Strain 39.75 %, Temperature 100 °C	@Strain 39.75 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	3.93 MPa	570 psi	
	@Strain 170.49 %, Temperature 120 °C	@Strain 170.49 %, Temperature 248 °F	TPE; ISO 11403-1 -2

Mechanical Properties	4.03 MPa Metric	585 psi English	Comments TPE; ISO 11403-1 -2
	@Strain 196.47 %, Temperature 120 °C	@Strain 196.47 %, Temperature 248 °F	
	<b>4.03 MPa</b>	<b>585 psi</b>	TPE; ISO 11403-1 -2
	@Strain 32.53 %, Temperature 90.0 °C	@Strain 32.53 %, Temperature 194 °F	
	<b>4.14 MPa</b>	<b>600 psi</b>	TPE; ISO 11403-1 -2
	@Strain 50.81 %, Temperature 100 °C	@Strain 50.81 %, Temperature 212 °F	
	<b>4.35 MPa</b>	<b>631 psi</b>	TPE; ISO 11403-1 -2
	@Strain 41.5 %, Temperature 90.0 °C	@Strain 41.5 %, Temperature 194 °F	
	<b>4.38 MPa</b>	<b>635 psi</b>	TPE; ISO 11403-1 -2
	@Strain 61.87 %, Temperature 100 °C	@Strain 61.87 %, Temperature 212 °F	
	<b>4.53 MPa</b>	<b>657 psi</b>	TPE; ISO 11403-1 -2
	@Strain 22.6 %, Temperature 60.0 °C	@Strain 22.6 %, Temperature 140 °F	
	<b>4.58 MPa</b>	<b>664 psi</b>	TPE; ISO 11403-1 -2
	@Strain 72.93 %, Temperature 100 °C	@Strain 72.93 %, Temperature 212 °F	
	<b>4.68 MPa</b>	<b>679 psi</b>	TPE; ISO 11403-1 -2
	@Strain 53.46 %, Temperature 90.0 °C	@Strain 53.46 %, Temperature 194 °F	
	<b>4.76 MPa</b>	<b>690 psi</b>	TPE; ISO 11403-1 -2
	@Strain 84.68 %, Temperature 100 °C	@Strain 84.68 %, Temperature 212 °F	
	<b>4.94 MPa</b>	<b>716 psi</b>	TPE; ISO 11403-1 -2
	@Strain 64.68 %, Temperature 90.0 °C	@Strain 64.68 %, Temperature 194 °F	
	<b>4.95 MPa</b>	<b>718 psi</b>	TPE; ISO 11403-1 -2
	@Strain 15.62 %, Temperature 40.0 °C	@Strain 15.62 %, Temperature 104 °F	
	<b>4.95 MPa</b>	<b>718 psi</b>	ISO 11403-1 -2
	@Strain 6.00 %, Temperature -20.0 °C	@Strain 6.00 %, Temperature -4.00 °F	
	<b>5.01 MPa</b>	<b>727 psi</b>	TPE; ISO 11403-1 -2
	@Strain 101.27 %,	@Strain 101.27 %,	

<b>Mechanical Properties</b>	<b>Temperature 100 °C Metric</b>	<b>Temperature 212 °F English</b>	<b>Comments</b>
	5.15 MPa	747 psi	
	@Strain 112.33 %, Temperature 100 °C	@Strain 112.33 %, Temperature 212 °F	TPE; ISO 11403-1 -2
	5.15 MPa	747 psi	
	@Strain 31.49 %, Temperature 60.0 °C	@Strain 31.49 %, Temperature 140 °F	TPE; ISO 11403-1 -2

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