

## DuPont Performance Polymers Hytrel® HTR237BG BK320 Polyester Elastomer TPC-ET (Unverified Data\*\*)

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

### Material Notes:

45 Shore D Lubricated High Viscosity Polyester Elastomer Developed for Blow Molding Hytrel HTR237BG is designed for blow molding or processing techniques requiring high viscosity. It has nominal durometer hardness of 45D is pigmented black with fine paInformation provided by DuPont Performance Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Performance-Polymers-Hytrel-HTR237BG-BK320-Polyester-Elastomer-TPC-ET-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Hytrel-HTR237BG-BK320-Polyester-Elastomer-TPC-ET-nbspUnverified-Data.php)

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in <sup>3</sup>	ISO 1183
Melt Flow	0.40 g/10 min	0.40 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 220 °C	@Load 4.76 lb, Temperature 428 °F	
	4.0 g/10 min	4.0 g/10 min	cm <sup>3</sup> /10min; ISO 1133
	@Load 10.0 kg, Temperature 220 °C	@Load 22.0 lb, Temperature 428 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	41	41	15s; ISO 868
	<= 45	<= 45	ISO 868
Tensile Strength at Break	30.0 MPa	4350 psi	ISO 527-1/-2
Tensile Stress	7.60 MPa	1100 psi	ISO 527-1/-2
	@Strain 10.0 %	@Strain 10.0 %	
	12.1 MPa	1750 psi	ISO 527-1/-2
	@Strain 50.0 %	@Strain 50.0 %	
	15.0 MPa	2180 psi	ISO 527-1/-2
	@Strain 100 %	@Strain 100 %	
	26.0 MPa	3770 psi	ISO 527-1/-2
	@Strain 300 %	@Strain 300 %	
	0.1910 MPa	27.71 psi	TPE; ISO 11403-1 -2
	@Strain 0.267315 %, Temperature 140 °C	@Strain 0.267315 %, Temperature 284 °F	

Mechanical Properties	Metric	English	Comments
	0.2427 MPa @Strain 0.2672 %, Temperature 110 °C	35.22 psi @Strain 0.2672 %, Temperature 230 °F	TPE; ISO 11403-1 -2
	0.2588 MPa @Strain 0.27498 %, Temperature 23.0 °C	37.54 psi @Strain 0.27498 %, Temperature 73.4 °F	TPE; ISO 11403-1 -2
	0.3651 MPa @Strain 0.68027 %, Temperature 140 °C	52.95 psi @Strain 0.68027 %, Temperature 284 °F	TPE; ISO 11403-1 -2
	0.4914 MPa @Strain 0.680202 %, Temperature 110 °C	71.28 psi @Strain 0.680202 %, Temperature 230 °F	TPE; ISO 11403-1 -2
	0.4965 MPa @Strain 0.692574 %, Temperature 23.0 °C	72.01 psi @Strain 0.692574 %, Temperature 73.4 °F	TPE; ISO 11403-1 -2
	0.5418 MPa @Strain 1.09146 %, Temperature 140 °C	78.59 psi @Strain 1.09146 %, Temperature 284 °F	TPE; ISO 11403-1 -2
	0.7116 MPa @Strain 1.50257 %, Temperature 140 °C	103.2 psi @Strain 1.50257 %, Temperature 284 °F	TPE; ISO 11403-1 -2
	0.7360 MPa @Strain 1.09127 %, Temperature 110 °C	106.8 psi @Strain 1.09127 %, Temperature 230 °F	TPE; ISO 11403-1 -2
	0.7406 MPa @Strain 1.10856 %, Temperature 23.0 °C	107.4 psi @Strain 1.10856 %, Temperature 73.4 °F	TPE; ISO 11403-1 -2
	0.8833 MPa @Strain 1.91367 %, Temperature 140 °C	128.1 psi @Strain 1.91367 %, Temperature 284 °F	TPE; ISO 11403-1 -2
	0.9720 MPa @Strain 1.50233 %, Temperature 110 °C	141.0 psi @Strain 1.50233 %, Temperature 230 °F	TPE; ISO 11403-1 -2
	1.004 MPa @Strain 1.52438 %, Temperature 23.0 °C	145.7 psi @Strain 1.52438 %, Temperature 73.4 °F	TPE; ISO 11403-1 -2
	1.096 MPa @Strain 2.46205 %, Temperature 23.0 °C	159.0 psi @Strain 2.46205 %, Temperature 73.4 °F	TPE; ISO 11403-1 -2

Mechanical Properties	Temperature 140 °C Metric	Temperature 284 °F English	Comments
	1.1944 MPa @Strain 1.91348 %, Temperature 110 °C	173.23 psi @Strain 1.91348 %, Temperature 230 °F	TPE; ISO 11403-1 -2
	1.275 MPa @Strain 1.94054 %, Temperature 23.0 °C	184.9 psi @Strain 1.94054 %, Temperature 73.4 °F	TPE; ISO 11403-1 -2
	1.291 MPa @Strain 3.01016 %, Temperature 140 °C	187.3 psi @Strain 3.01016 %, Temperature 284 °F	TPE; ISO 11403-1 -2
	1.452 MPa @Strain 2.46171 %, Temperature 110 °C	210.6 psi @Strain 2.46171 %, Temperature 230 °F	TPE; ISO 11403-1 -2
	1.476 MPa @Strain 3.55844 %, Temperature 140 °C	214.1 psi @Strain 3.55844 %, Temperature 284 °F	TPE; ISO 11403-1 -2
	1.629 MPa @Strain 2.49505 %, Temperature 23.0 °C	236.2 psi @Strain 2.49505 %, Temperature 73.4 °F	TPE; ISO 11403-1 -2
	1.641 MPa @Strain 4.10664 %, Temperature 140 °C	237.9 psi @Strain 4.10664 %, Temperature 284 °F	TPE; ISO 11403-1 -2
	1.700 MPa @Strain 3.00977 %, Temperature 110 °C	246.6 psi @Strain 3.00977 %, Temperature 230 °F	TPE; ISO 11403-1 -2
	1.862 MPa @Strain 4.92903 %, Temperature 140 °C	270.0 psi @Strain 4.92903 %, Temperature 284 °F	TPE; ISO 11403-1 -2
	1.926 MPa @Strain 3.558 %, Temperature 110 °C	279.4 psi @Strain 3.558 %, Temperature 230 °F	TPE; ISO 11403-1 -2
	1.977 MPa @Strain 3.04973 %, Temperature 23.0 °C	286.8 psi @Strain 3.04973 %, Temperature 73.4 °F	TPE; ISO 11403-1 -2
	1.993 MPa @Strain 5.47714 %, Temperature 140 °C	289.0 psi @Strain 5.47714 %, Temperature 284 °F	TPE; ISO 11403-1 -2
	2.120 MPa	307.5 psi	

Mechanical Properties	Metric	English	Comments
	@Strain 4.10606 %, Temperature 110 °C	@Strain 4.10606 %, Temperature 230 °F	TPE; ISO 11403-1 -2
	2.157 MPa	312.9 psi	TPE; ISO 11403-1 -2
	@Strain 6.16243 %, Temperature 140 °C	@Strain 6.16243 %, Temperature 284 °F	TPE; ISO 11403-1 -2
	2.315 MPa	335.8 psi	TPE; ISO 11403-1 -2
	@Strain 3.60433 %, Temperature 23.0 °C	@Strain 3.60433 %, Temperature 73.4 °F	TPE; ISO 11403-1 -2
	2.365 MPa	343.0 psi	TPE; ISO 11403-1 -2
	@Strain 7.12182 %, Temperature 140 °C	@Strain 7.12182 %, Temperature 284 °F	TPE; ISO 11403-1 -2
	2.407 MPa	349.1 psi	TPE; ISO 11403-1 -2
	@Strain 4.92845 %, Temperature 110 °C	@Strain 4.92845 %, Temperature 230 °F	TPE; ISO 11403-1 -2
	2.580 MPa	374.2 psi	TPE; ISO 11403-1 -2
	@Strain 8.21831 %, Temperature 140 °C	@Strain 8.21831 %, Temperature 284 °F	TPE; ISO 11403-1 -2
	2.5834 MPa	374.69 psi	TPE; ISO 11403-1 -2
	@Strain 5.4765 %, Temperature 110 °C	@Strain 5.4765 %, Temperature 230 °F	TPE; ISO 11403-1 -2
	2.656 MPa	385.2 psi	TPE; ISO 11403-1 -2
	@Strain 4.15892 %, Temperature 23.0 °C	@Strain 4.15892 %, Temperature 73.4 °F	TPE; ISO 11403-1 -2
	2.789 MPa	404.6 psi	TPE; ISO 11403-1 -2
	@Strain 6.16164 %, Temperature 110 °C	@Strain 6.16164 %, Temperature 230 °F	TPE; ISO 11403-1 -2
	3.064 MPa	444.4 psi	TPE; ISO 11403-1 -2
	@Strain 7.12102 %, Temperature 110 °C	@Strain 7.12102 %, Temperature 230 °F	TPE; ISO 11403-1 -2
	3.163 MPa	458.8 psi	TPE; ISO 11403-1 -2
	@Strain 4.9909 %, Temperature 23.0 °C	@Strain 4.9909 %, Temperature 73.4 °F	TPE; ISO 11403-1 -2
	3.346 MPa	485.4 psi	TPE; ISO 11403-1 -2
	@Strain 8.21731 %, Temperature 110 °C	@Strain 8.21731 %, Temperature 230 °F	TPE; ISO 11403-1 -2
	3.493 MPa	506.6 psi	TPE; ISO 11403-1 -2
	@Strain 5.5454 %, Temperature 23.0 °C	@Strain 5.5454 %, Temperature 73.4 °F	TPE; ISO 11403-1 -2

Mechanical Properties	Metric MPa	English psi	Comments
	@Strain 6.23869 %, Temperature 23.0 °C	@Strain 6.23869 %, Temperature 73.4 °F	TPE; ISO 11403-1 -2
	4.4388 MPa	643.79 psi	
	@Strain 7.20928 %, Temperature 23.0 °C	@Strain 7.20928 %, Temperature 73.4 °F	TPE; ISO 11403-1 -2
	4.508 MPa	653.8 psi	
	@Strain 30.4211 %, Temperature 140 °C	@Strain 30.4211 %, Temperature 284 °F	TPE; ISO 11403-1 -2
	5.025 MPa	728.8 psi	
	@Strain 8.31847 %, Temperature 23.0 °C	@Strain 8.31847 %, Temperature 73.4 °F	TPE; ISO 11403-1 -2
	6.028 MPa	874.3 psi	
	@Strain 30.418 %, Temperature 110 °C	@Strain 30.418 %, Temperature 230 °F	TPE; ISO 11403-1 -2
	10.84 MPa	1572 psi	
	@Strain 30.7803 %, Temperature 23.0 °C	@Strain 30.7803 %, Temperature 73.4 °F	TPE; ISO 11403-1 -2
Elongation at Break	>= 300 %	>= 300 %	ISO 527-1/-2
Tensile Modulus	0.0900 GPa	13.1 ksi	ISO 527-1/-2
	0.0191 GPa	2.77 ksi	
	@Temperature 170 °C	@Temperature 338 °F	Dynamic; ISO 11403-1 -2
	0.0438 GPa	6.35 ksi	
	@Temperature 110 °C	@Temperature 230 °F	Dynamic; ISO 11403-1 -2
	0.0878 GPa	12.7 ksi	
	@Temperature 30.0 °C	@Temperature 86.0 °F	Dynamic; ISO 11403-1 -2
	0.216 GPa	31.3 ksi	
	@Temperature -20.0 °C	@Temperature -4.00 °F	Dynamic; ISO 11403-1 -2
	1.81 GPa	262 ksi	
	@Temperature -70.0 °C	@Temperature -94.0 °F	Dynamic; ISO 11403-1 -2
	2.53 GPa	367 ksi	
	@Temperature -100 °C	@Temperature -148 °F	Dynamic; ISO 11403-1 -2
Flexural Modulus	0.0900 GPa	13.1 ksi	ISO 178
Izod Impact, Notched (ISO)	NB	NB	ISO 180/1A

Mechanical Properties

Metric

English

Comments

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