

DuPont Performance Polymers Zytel® HTN 54G35EF BK420 Polyphthalamide (PPA) (Unverified Data**)

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), 40% Glass Fiber Reinforced

Material Notes:

35% Glass Reinforced Toughened PPA High Performance Polyamide Developed for Electrical and Electronics Applications Zytel HTN54G35EF BK420 is a 35% glass reinforced toughened heat stabilized lubricated high performance polyamide resin developed for

eleInformation provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-HTN-54G35EF-BK420-Polyphthalamide-PPA-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	DAM; ISO 1183
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	DAM; ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	DAM; ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	185 MPa	26800 psi	DAM; ISO 527-1/-2
Tensile Stress	1.39 MPa	202 psi	50%RH; ISO 11403-1 -2
	@Strain 0.0300 %, Temperature -20.0 °C	@Strain 0.0300 %, Temperature -4.00 °F	
	1.71 MPa	248 psi	DAM; ISO 11403-1 -2
	@Strain 0.0600 %, Temperature 23.0 °C	@Strain 0.0600 %, Temperature 73.4 °F	
	1.83 MPa	265 psi	50%RH; ISO 11403-1 -2
	@Strain 0.0200 %, Temperature 0.000 °C	@Strain 0.0200 %, Temperature 32.0 °F	
	2.30 MPa	334 psi	DAM; ISO 11403-1 -2
	@Strain 0.0500 %, Temperature 0.000 °C	@Strain 0.0500 %, Temperature 32.0 °F	
	2.52 MPa	365 psi	DAM; ISO 11403-1 -2
	@Strain 0.0600 %, Temperature -20.0 °C	@Strain 0.0600 %, Temperature -4.00 °F	
	3.23 MPa	468 psi	50%RH; ISO 11403-1 -2
	@Strain 0.0800 %, Temperature 150 °C	@Strain 0.0800 %, Temperature 302 °F	
	3.25 MPa	471 psi	

Mechanical Properties	Metric	English	Comments
	@Strain 0.0700 %, Temperature 180 °C	@Strain 0.0700 %, Temperature 356 °F	DAM; ISO 11403-1 -2
	3.35 MPa	486 psi	
	@Strain 0.0700 %, Temperature 150 °C	@Strain 0.0700 %, Temperature 302 °F	DAM; ISO 11403-1 -2
	4.01 MPa	582 psi	
	@Strain 0.0700 %, Temperature 90.0 °C	@Strain 0.0700 %, Temperature 194 °F	50%RH; ISO 11403-1 -2
	4.49 MPa	651 psi	
	@Strain 0.0300 %, Temperature 90.0 °C	@Strain 0.0300 %, Temperature 194 °F	DAM; ISO 11403-1 -2
	4.99 MPa	724 psi	
	@Strain 0.0600 %, Temperature 40.0 °C	@Strain 0.0600 %, Temperature 104 °F	DAM; ISO 11403-1 -2
	5.23 MPa	759 psi	
	@Strain 0.0500 %, Temperature 40.0 °C	@Strain 0.0500 %, Temperature 104 °F	50%RH; ISO 11403-1 -2
	5.29 MPa	767 psi	
	@Strain 0.0500 %, Temperature 23.0 °C	@Strain 0.0500 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	10.69 MPa	1550 psi	
	@Strain 0.120 %, Temperature 0.000 °C	@Strain 0.120 %, Temperature 32.0 °F	50%RH; ISO 11403-1 -2
	11.68 MPa	1694 psi	
	@Strain 0.330 %, Temperature 180 °C	@Strain 0.330 %, Temperature 356 °F	DAM; ISO 11403-1 -2
	11.76 MPa	1706 psi	
	@Strain 0.240 %, Temperature 90.0 °C	@Strain 0.240 %, Temperature 194 °F	50%RH; ISO 11403-1 -2
	11.8 MPa	1710 psi	
	@Strain 0.290 %, Temperature 150 °C	@Strain 0.290 %, Temperature 302 °F	DAM; ISO 11403-1 -2
	12.54 MPa	1819 psi	
	@Strain 0.130 %, Temperature -20.0 °C	@Strain 0.130 %, Temperature -4.00 °F	50%RH; ISO 11403-1 -2
	13.02 MPa	1888 psi	
	@Strain 0.170 %, Temperature 23.0 °C	@Strain 0.170 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2

Mechanical Properties	MetricMPa	Englishpsi	Comments
	@Strain 0.410 %, Temperature 150 °C	@Strain 0.410 %, Temperature 302 °F	50%RH; ISO 11403-1 -2
	14.11 MPa	2046 psi	
	@Strain 0.130 %, Temperature 90.0 °C	@Strain 0.130 %, Temperature 194 °F	DAM; ISO 11403-1 -2
	14.97 MPa	2171 psi	
	@Strain 0.170 %, Temperature 40.0 °C	@Strain 0.170 %, Temperature 104 °F	DAM; ISO 11403-1 -2
	15.73 MPa	2281 psi	
	@Strain 0.160 %, Temperature 40.0 °C	@Strain 0.160 %, Temperature 104 °F	50%RH; ISO 11403-1 -2
	15.77 MPa	2287 psi	
	@Strain 0.170 %, Temperature 0.000 °C	@Strain 0.170 %, Temperature 32.0 °F	DAM; ISO 11403-1 -2
	16.41 MPa	2380 psi	
	@Strain 0.170 %, Temperature 23.0 °C	@Strain 0.170 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	17.13 MPa	2485 psi	
	@Strain 0.200 %, Temperature -20.0 °C	@Strain 0.200 %, Temperature -4.00 °F	DAM; ISO 11403-1 -2
	23.17 MPa	3361 psi	
	@Strain 0.240 %, Temperature 90.0 °C	@Strain 0.240 %, Temperature 194 °F	DAM; ISO 11403-1 -2
	23.18 MPa	3362 psi	
	@Strain 0.240 %, Temperature 0.000 °C	@Strain 0.240 %, Temperature 32.0 °F	50%RH; ISO 11403-1 -2
	27.22 MPa	3948 psi	
	@Strain 0.270 %, Temperature 40.0 °C	@Strain 0.270 %, Temperature 104 °F	50%RH; ISO 11403-1 -2
	30.8 MPa	4470 psi	
	@Strain 1.47 %, Temperature 180 °C	@Strain 1.47 %, Temperature 356 °F	DAM; ISO 11403-1 -2
	32.17 MPa	4666 psi	
	@Strain 0.320 %, Temperature -20.0 °C	@Strain 0.320 %, Temperature -4.00 °F	50%RH; ISO 11403-1 -2
	32.53 MPa	4718 psi	
			50%RH; ISO 11403-1 -2

Mechanical Properties	Metric @Strain 1.57 %, Temperature 150 °C	English @Strain 1.57 %, Temperature 302 °F	Comments
	33.5 MPa	4860 psi	
	@Strain 0.360 %, Temperature 40.0 °C	@Strain 0.360 %, Temperature 104 °F	DAM; ISO 11403-1 -2
	34.98 MPa	5073 psi	
	@Strain 0.380 %, Temperature 23.0 °C	@Strain 0.380 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
	36.08 MPa	5233 psi	
	@Strain 1.37 %, Temperature 150 °C	@Strain 1.37 %, Temperature 302 °F	DAM; ISO 11403-1 -2
	36.26 MPa	5259 psi	
	@Strain 0.360 %, Temperature 23.0 °C	@Strain 0.360 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	38.61 MPa	5600 psi	
	@Strain 1.11 %, Temperature 90.0 °C	@Strain 1.11 %, Temperature 194 °F	50%RH; ISO 11403-1 -2
	39.92 MPa	5790 psi	
	@Strain 2.76 %, Temperature 180 °C	@Strain 2.76 %, Temperature 356 °F	DAM; ISO 11403-1 -2
	41.83 MPa	6067 psi	
	@Strain 2.87 %, Temperature 150 °C	@Strain 2.87 %, Temperature 302 °F	50%RH; ISO 11403-1 -2
	46.42 MPa	6733 psi	
	@Strain 0.470 %, Temperature 0.000 °C	@Strain 0.470 %, Temperature 32.0 °F	DAM; ISO 11403-1 -2
	47.69 MPa	6917 psi	
	@Strain 2.56 %, Temperature 150 °C	@Strain 2.56 %, Temperature 302 °F	DAM; ISO 11403-1 -2
	52.15 MPa	7564 psi	
	@Strain 7.00 %, Temperature 180 °C	@Strain 7.00 %, Temperature 356 °F	DAM; ISO 11403-1 -2
	52.83 MPa	7662 psi	
	@Strain 2.15 %, Temperature 90.0 °C	@Strain 2.15 %, Temperature 194 °F	50%RH; ISO 11403-1 -2
	53.14 MPa	7707 psi	
	@Strain 7.01 %, Temperature 150 °C	@Strain 7.01 %, Temperature 302 °F	50%RH; ISO 11403-1 -2

Mechanical Properties	54.82 MPa Metric	7951 psi English	Comments DAM; ISO 11403-1 -2
	@Strain 9.55 %, Temperature 180 °C	@Strain 9.55 %, Temperature 356 °F	
	54.94 MPa	7968 psi	
	@Strain 9.70 %, Temperature 150 °C	@Strain 9.70 %, Temperature 302 °F	50%RH; ISO 11403-1 -2
	57.46 MPa	8334 psi	
	@Strain 0.600 %, Temperature -20.0 °C	@Strain 0.600 %, Temperature -4.00 °F	DAM; ISO 11403-1 -2
	59.82 MPa	8676 psi	
	@Strain 0.690 %, Temperature 90.0 °C	@Strain 0.690 %, Temperature 194 °F	DAM; ISO 11403-1 -2
	62.9 MPa	9120 psi	
	@Strain 6.42 %, Temperature 150 °C	@Strain 6.42 %, Temperature 302 °F	DAM; ISO 11403-1 -2
	65.23 MPa	9461 psi	
	@Strain 0.720 %, Temperature 40.0 °C	@Strain 0.720 %, Temperature 104 °F	50%RH; ISO 11403-1 -2
	66.08 MPa	9584 psi	
	@Strain 8.91 %, Temperature 150 °C	@Strain 8.91 %, Temperature 302 °F	DAM; ISO 11403-1 -2
	68.14 MPa	9883 psi	
	@Strain 5.88 %, Temperature 90.0 °C	@Strain 5.88 %, Temperature 194 °F	50%RH; ISO 11403-1 -2
	69.78 MPa	10120 psi	
	@Strain 8.47 %, Temperature 90.0 °C	@Strain 8.47 %, Temperature 194 °F	50%RH; ISO 11403-1 -2
	71.33 MPa	10350 psi	
	@Strain 0.710 %, Temperature 0.000 °C	@Strain 0.710 %, Temperature 32.0 °F	50%RH; ISO 11403-1 -2
	73.23 MPa	10620 psi	
	@Strain 0.810 %, Temperature 40.0 °C	@Strain 0.810 %, Temperature 104 °F	DAM; ISO 11403-1 -2
	77.37 MPa	11220 psi	
	@Strain 0.830 %, Temperature 23.0 °C	@Strain 0.830 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	80.94 MPa	11740 psi	
	@Strain 0.750 %, Temperature -20.0 °C	@Strain 0.750 %, Temperature -4.00 °F	50%RH; ISO 11403-1 -2

Mechanical Properties	Metric	English	Comments
	81.31 MPa	11820 psi	
	@Strain 0.860 %, Temperature 23.0 °C	@Strain 0.860 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
	89.54 MPa	12990 psi	
	@Strain 0.940 %, Temperature 0.000 °C	@Strain 0.940 %, Temperature 32.0 °F	DAM; ISO 11403-1 -2
	101.41 MPa	14708 psi	
	@Strain 1.07 %, Temperature -20.0 °C	@Strain 1.07 %, Temperature -4.00 °F	DAM; 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