

DuPont Performance Polymers Zytel® FR7026V0F BK001 Nylon 66 (Unverified Data**)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Unreinforced, Flame Retardant

Material Notes:

Zytel® FR7026V0F BK001 is a flame retardant heat stabilized polyamide 66 resin for injection molding. It does not contain elemental phosphorous, halogens or heavy metals. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-FR7026V0F-BK001-Nylon-66-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in³	DAM; ISO 1183
Linear Mold Shrinkage, Flow	0.0090 cm/cm	0.0090 in/in	DAM; ISO 294-4
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	DAM; ISO 294-4
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength	70.0 MPa	10200 psi	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Stress	1.14 MPa	165 psi	DAM; ISO 11403-1/-2
	@Strain 0.100 %, Temperature 80.0 °C	@Strain 0.100 %, Temperature 176 °F	
	2.95 MPa	428 psi	DAM; ISO 11403-1/-2
	@Strain 0.200 %, Temperature 80.0 °C	@Strain 0.200 %, Temperature 176 °F	
	3.10 MPa	450 psi	DAM; ISO 11403-1/-2
	@Strain 0.100 %, Temperature 60.0 °C	@Strain 0.100 %, Temperature 140 °F	
	3.69 MPa	535 psi	DAM; ISO 11403-1/-2
	@Strain 0.100 %, Temperature 23.0 °C	@Strain 0.100 %, Temperature 73.4 °F	
	4.17 MPa	605 psi	DAM; ISO 11403-1/-2
	@Strain 0.100 %, Temperature -40.0 °C	@Strain 0.100 %, Temperature -40.0 °F	
	4.23 MPa	614 psi	DAM; ISO 11403-1/-2
	@Strain 0.100 %,	@Strain 0.100 %,	

Mechanical Properties	Temperature 0.000 °C Metric	Temperature 32.0 °F English	Comments
	4.26 MPa	618 psi	
	@Strain 0.300 %, Temperature 80.0 °C	@Strain 0.300 %, Temperature 176 °F	DAM; ISO 11403-1/-2
	4.67 MPa	677 psi	
	@Strain 0.200 %, Temperature 60.0 °C	@Strain 0.200 %, Temperature 140 °F	DAM; ISO 11403-1/-2
	5.45 MPa	790 psi	
	@Strain 0.400 %, Temperature 80.0 °C	@Strain 0.400 %, Temperature 176 °F	DAM; ISO 11403-1/-2
	6.47 MPa	938 psi	
	@Strain 0.500 %, Temperature 80.0 °C	@Strain 0.500 %, Temperature 176 °F	DAM; ISO 11403-1/-2
	6.64 MPa	963 psi	
	@Strain 0.300 %, Temperature 60.0 °C	@Strain 0.300 %, Temperature 140 °F	DAM; ISO 11403-1/-2
	7.37 MPa	1070 psi	
	@Strain 0.200 %, Temperature 23.0 °C	@Strain 0.200 %, Temperature 73.4 °F	DAM; ISO 11403-1/-2
	7.61 MPa	1100 psi	
	@Strain 0.200 %, Temperature -40.0 °C	@Strain 0.200 %, Temperature -40.0 °F	DAM; ISO 11403-1/-2
	7.80 MPa	1130 psi	
	@Strain 0.600 %, Temperature 80.0 °C	@Strain 0.600 %, Temperature 176 °F	DAM; ISO 11403-1/-2
	7.97 MPa	1160 psi	
	@Strain 0.200 %, Temperature 0.000 °C	@Strain 0.200 %, Temperature 32.0 °F	DAM; ISO 11403-1/-2
	8.44 MPa	1220 psi	
	@Strain 0.400 %, Temperature 60.0 °C	@Strain 0.400 %, Temperature 140 °F	DAM; ISO 11403-1/-2
	9.22 MPa	1340 psi	
	@Strain 0.700 %, Temperature 80.0 °C	@Strain 0.700 %, Temperature 176 °F	DAM; ISO 11403-1/-2
	10.28 MPa	1491 psi	
	@Strain 0.800 %, Temperature 80.0 °C	@Strain 0.800 %, Temperature 176 °F	DAM; ISO 11403-1/-2
	10.52 MPa	1526 psi	

Mechanical Properties	Metric	English	Comments
	@Strain 0.500 %, Temperature 60.0 °C	@Strain 0.500 %, Temperature 140 °F	DAM; ISO 11403-1/-2
	11.05 MPa	1603 psi	
	@Strain 0.300 %, Temperature 23.0 °C	@Strain 0.300 %, Temperature 73.4 °F	DAM; ISO 11403-1/-2
	11.12 MPa	1613 psi	
	@Strain 0.900 %, Temperature 80.0 °C	@Strain 0.900 %, Temperature 176 °F	DAM; ISO 11403-1/-2
	11.26 MPa	1633 psi	
	@Strain 0.300 %, Temperature -40.0 °C	@Strain 0.300 %, Temperature -40.0 °F	DAM; ISO 11403-1/-2
	11.74 MPa	1703 psi	
	@Strain 1.00 %, Temperature 80.0 °C	@Strain 1.00 %, Temperature 176 °F	DAM; ISO 11403-1/-2
	11.9 MPa	1730 psi	
	@Strain 0.300 %, Temperature 0.000 °C	@Strain 0.300 %, Temperature 32.0 °F	DAM; ISO 11403-1/-2
	12.07 MPa	1751 psi	
	@Strain 0.600 %, Temperature 60.0 °C	@Strain 0.600 %, Temperature 140 °F	DAM; ISO 11403-1/-2
	12.33 MPa	1788 psi	
	@Strain 1.10 %, Temperature 80.0 °C	@Strain 1.10 %, Temperature 176 °F	DAM; ISO 11403-1/-2
	13.06 MPa	1894 psi	
	@Strain 1.20 %, Temperature 80.0 °C	@Strain 1.20 %, Temperature 176 °F	DAM; ISO 11403-1/-2
	13.77 MPa	1997 psi	
	@Strain 1.30 %, Temperature 80.0 °C	@Strain 1.30 %, Temperature 176 °F	DAM; ISO 11403-1/-2
	13.85 MPa	2009 psi	
	@Strain 0.700 %, Temperature 60.0 °C	@Strain 0.700 %, Temperature 140 °F	DAM; ISO 11403-1/-2
	14.05 MPa	2038 psi	
	@Strain 0.400 %, Temperature 23.0 °C	@Strain 0.400 %, Temperature 73.4 °F	DAM; ISO 11403-1/-2
	14.44 MPa	2094 psi	
	@Strain 1.40 %, Temperature 80.0 °C	@Strain 1.40 %, Temperature 176 °F	DAM; ISO 11403-1/-2

Mechanical Properties	Metric MPa	English psi	Comments
	@Strain 1.50 %, Temperature 80.0 °C	@Strain 1.50 %, Temperature 176 °F	DAM; ISO 11403-1/-2
	15.14 MPa	2196 psi	
	@Strain 0.400 %, Temperature -40.0 °C	@Strain 0.400 %, Temperature -40.0 °F	DAM; ISO 11403-1/-2
	15.71 MPa	2279 psi	
	@Strain 1.60 %, Temperature 80.0 °C	@Strain 1.60 %, Temperature 176 °F	DAM; ISO 11403-1/-2
	15.74 MPa	2283 psi	
	@Strain 0.400 %, Temperature 0.000 °C	@Strain 0.400 %, Temperature 32.0 °F	DAM; ISO 11403-1/-2
	15.96 MPa	2315 psi	
	@Strain 0.800 %, Temperature 60.0 °C	@Strain 0.800 %, Temperature 140 °F	DAM; ISO 11403-1/-2
	16.15 MPa	2342 psi	
	@Strain 1.70 %, Temperature 80.0 °C	@Strain 1.70 %, Temperature 176 °F	DAM; ISO 11403-1/-2
	16.56 MPa	2402 psi	
	@Strain 1.80 %, Temperature 80.0 °C	@Strain 1.80 %, Temperature 176 °F	DAM; ISO 11403-1/-2
	17.15 MPa	2487 psi	
	@Strain 1.90 %, Temperature 80.0 °C	@Strain 1.90 %, Temperature 176 °F	DAM; ISO 11403-1/-2
	17.65 MPa	2560 psi	
	@Strain 2.00 %, Temperature 80.0 °C	@Strain 2.00 %, Temperature 176 °F	DAM; ISO 11403-1/-2
	18.07 MPa	2621 psi	
	@Strain 0.900 %, Temperature 60.0 °C	@Strain 0.900 %, Temperature 140 °F	DAM; ISO 11403-1/-2
	18.18 MPa	2637 psi	
	@Strain 2.10 %, Temperature 80.0 °C	@Strain 2.10 %, Temperature 176 °F	DAM; ISO 11403-1/-2
	18.29 MPa	2653 psi	
	@Strain 0.500 %, Temperature 23.0 °C	@Strain 0.500 %, Temperature 73.4 °F	DAM; ISO 11403-1/-2
	18.52 MPa	2686 psi	
			DAM; ISO 11403-1/-2

Mechanical Properties	Metric @Strain 2.20 %, Temperature 80.0 °C	English @Strain 2.20 %, Temperature 176 °F	Comments
	18.91 MPa	2743 psi	
	@Strain 2.30 %, Temperature 80.0 °C	@Strain 2.30 %, Temperature 176 °F	DAM; ISO 11403-1/-2
	19.07 MPa	2766 psi	
	@Strain 0.500 %, Temperature -40.0 °C	@Strain 0.500 %, Temperature -40.0 °F	DAM; ISO 11403-1/-2
	19.37 MPa	2809 psi	
	@Strain 2.40 %, Temperature 80.0 °C	@Strain 2.40 %, Temperature 176 °F	DAM; ISO 11403-1/-2
	19.49 MPa	2827 psi	
	@Strain 0.500 %, Temperature 0.000 °C	@Strain 0.500 %, Temperature 32.0 °F	DAM; ISO 11403-1/-2
	19.62 MPa	2846 psi	
	@Strain 1.00 %, Temperature 60.0 °C	@Strain 1.00 %, Temperature 140 °F	DAM; ISO 11403-1/-2
	19.84 MPa	2878 psi	
	@Strain 2.50 %, Temperature 80.0 °C	@Strain 2.50 %, Temperature 176 °F	DAM; ISO 11403-1/-2
	20.25 MPa	2937 psi	
	@Strain 2.60 %, Temperature 80.0 °C	@Strain 2.60 %, Temperature 176 °F	DAM; ISO 11403-1/-2
	20.62 MPa	2991 psi	
	@Strain 2.70 %, Temperature 80.0 °C	@Strain 2.70 %, Temperature 176 °F	DAM; ISO 11403-1/-2
	20.87 MPa	3027 psi	
	@Strain 2.80 %, Temperature 80.0 °C	@Strain 2.80 %, Temperature 176 °F	DAM; ISO 11403-1/-2
	21.17 MPa	3070 psi	
	@Strain 1.10 %, Temperature 60.0 °C	@Strain 1.10 %, Temperature 140 °F	DAM; ISO 11403-1/-2
	21.34 MPa	3095 psi	
	@Strain 2.90 %, Temperature 80.0 °C	@Strain 2.90 %, Temperature 176 °F	DAM; ISO 11403-1/-2
	21.7 MPa	3150 psi	
	@Strain 3.00 %, Temperature 80.0 °C	@Strain 3.00 %, Temperature 176 °F	DAM; ISO 11403-1/-2

Mechanical Properties	21.89 MPa Metric	3175 psi English	Comments
	@Strain 0.600 %, Temperature 23.0 °C	@Strain 0.600 %, Temperature 73.4 °F	
	22.04 MPa	3197 psi	
	@Strain 3.10 %, Temperature 80.0 °C	@Strain 3.10 %, Temperature 176 °F	DAM; ISO 11403-1/-2
	22.3 MPa	3230 psi	
	@Strain 3.20 %, Temperature 80.0 °C	@Strain 3.20 %, Temperature 176 °F	DAM; ISO 11403-1/-2
	22.55 MPa	3271 psi	
	@Strain 1.20 %, Temperature 60.0 °C	@Strain 1.20 %, Temperature 140 °F	DAM; ISO 11403-1/-2

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