

DuPont Performance Polymers Zytel® FR7026V0F NC010 Nylon 66 (Unverified Data**)

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

Material Notes:

Zytel® FR7026V0F NC010 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-NC010-Nylon-66-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	DAM; ASTM D792
Density	1.16 g/cc	0.0419 lb/in ³	DAM; ISO 1183
Water Absorption	2.4 %	2.4 %	Equilibrium 50%RH; DAM; ISO 62, Similar to
	@Thickness 1.00 mm, Temperature 23.0 °C	@Thickness 0.0394 in, Temperature 73.4 °F	
Linear Mold Shrinkage, Flow	8.0 %	8.0 %	Saturation, immersed; DAM; ISO 62, Similar to
	@Thickness 1.00 mm, Temperature 23.0 °C	@Thickness 0.0394 in, Temperature 73.4 °F	
Linear Mold Shrinkage, Transverse	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 at Break	80.0 MPa	11600 psi	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Strength	89.6 MPa	13000 psi	DAM; ASTM D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Stress	1.62 MPa	235 psi	DAM; ISO 11403-1/-2
	@Strain 0.100 %, Temperature 80.0 °C	@Strain 0.100 %, Temperature 176 °F	
Tensile Stress	2.87 MPa	416 psi	DAM; ISO 11403-1/-2
	@Strain 0.200 %, Temperature 80.0 °C	@Strain 0.200 %, Temperature 176 °F	
Tensile Stress	3.12 MPa	453 psi	

Mechanical Properties	Metric	English	DAM; ISO 11403-1/-2 Comments
	@Strain 0.100 %, Temperature 60.0 °C	@Strain 0.100 %, Temperature 140 °F	
	3.57 MPa	518 psi	
	@Strain 0.100 %, Temperature 23.0 °C	@Strain 0.100 %, Temperature 73.4 °F	DAM; ISO 11403-1/-2
	4.01 MPa	582 psi	
	@Strain 0.100 %, Temperature -40.0 °C	@Strain 0.100 %, Temperature -40.0 °F	DAM; ISO 11403-1/-2
	4.02 MPa	583 psi	
	@Strain 0.300 %, Temperature 80.0 °C	@Strain 0.300 %, Temperature 176 °F	DAM; ISO 11403-1/-2
	4.54 MPa	658 psi	
	@Strain 0.100 %, Temperature 0.000 °C	@Strain 0.100 %, Temperature 32.0 °F	DAM; ISO 11403-1/-2
	5.11 MPa	741 psi	
	@Strain 0.200 %, Temperature 60.0 °C	@Strain 0.200 %, Temperature 140 °F	DAM; ISO 11403-1/-2
	5.43 MPa	788 psi	
	@Strain 0.400 %, Temperature 80.0 °C	@Strain 0.400 %, Temperature 176 °F	DAM; ISO 11403-1/-2
	6.54 MPa	949 psi	
	@Strain 0.500 %, Temperature 80.0 °C	@Strain 0.500 %, Temperature 176 °F	DAM; ISO 11403-1/-2
	7.04 MPa	1020 psi	
	@Strain 0.300 %, Temperature 60.0 °C	@Strain 0.300 %, Temperature 140 °F	DAM; ISO 11403-1/-2
	7.17 MPa	1040 psi	
	@Strain 0.200 %, Temperature 23.0 °C	@Strain 0.200 %, Temperature 73.4 °F	DAM; ISO 11403-1/-2
	7.51 MPa	1090 psi	
	@Strain 0.200 %, Temperature -40.0 °C	@Strain 0.200 %, Temperature -40.0 °F	DAM; ISO 11403-1/-2
	7.56 MPa	1100 psi	
	@Strain 0.600 %, Temperature 80.0 °C	@Strain 0.600 %, Temperature 176 °F	DAM; ISO 11403-1/-2
	8.52 MPa	1240 psi	
	@Strain 0.400 %, Temperature 60.0 °C	@Strain 0.400 %, Temperature 140 °F	DAM; ISO 11403-1/-2

Mechanical Properties	Metric Pa	English	Comments
	@Strain 0.700 %, Temperature 80.0 °C	@Strain 0.700 %, Temperature 176 °F	DAM; ISO 11403-1/-2
	9.17 MPa	1330 psi	
	@Strain 0.200 %, Temperature 0.000 °C	@Strain 0.200 %, Temperature 32.0 °F	DAM; ISO 11403-1/-2
	9.58 MPa	1390 psi	
	@Strain 0.800 %, Temperature 80.0 °C	@Strain 0.800 %, Temperature 176 °F	DAM; ISO 11403-1/-2
	10.53 MPa	1527 psi	
	@Strain 0.900 %, Temperature 80.0 °C	@Strain 0.900 %, Temperature 176 °F	DAM; ISO 11403-1/-2
	10.68 MPa	1549 psi	
	@Strain 0.500 %, Temperature 60.0 °C	@Strain 0.500 %, Temperature 140 °F	DAM; ISO 11403-1/-2
	10.83 MPa	1571 psi	
	@Strain 0.300 %, Temperature 23.0 °C	@Strain 0.300 %, Temperature 73.4 °F	DAM; ISO 11403-1/-2
	11.34 MPa	1645 psi	
	@Strain 0.300 %, Temperature -40.0 °C	@Strain 0.300 %, Temperature -40.0 °F	DAM; ISO 11403-1/-2
	11.67 MPa	1693 psi	
	@Strain 1.00 %, Temperature 80.0 °C	@Strain 1.00 %, Temperature 176 °F	DAM; ISO 11403-1/-2
	12.72 MPa	1845 psi	
	@Strain 0.600 %, Temperature 60.0 °C	@Strain 0.600 %, Temperature 140 °F	DAM; ISO 11403-1/-2
	12.74 MPa	1848 psi	
	@Strain 1.10 %, Temperature 80.0 °C	@Strain 1.10 %, Temperature 176 °F	DAM; ISO 11403-1/-2
	13.62 MPa	1975 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 0.300 %, Temperature 0.000 °C	@Strain 0.300 %, Temperature 32.0 °F	DAM; ISO 11403-1/-2
	13.88 MPa	2013 psi	
			DAM; ISO 11403-1/-2

Mechanical Properties	Metric @Strain 0.400 %, Temperature 23.0 °C	English @Strain 0.400 %, Temperature 73.4 °F	Comments
	14.43 MPa	2093 psi	DAM; ISO 11403-1/-2
	@Strain 1.30 %, Temperature 80.0 °C	@Strain 1.30 %, Temperature 176 °F	
	14.66 MPa	2126 psi	DAM; ISO 11403-1/-2
	@Strain 0.700 %, Temperature 60.0 °C	@Strain 0.700 %, Temperature 140 °F	
	15.24 MPa	2210 psi	DAM; ISO 11403-1/-2
	@Strain 1.40 %, Temperature 80.0 °C	@Strain 1.40 %, Temperature 176 °F	
	15.3 MPa	2220 psi	DAM; ISO 11403-1/-2
	@Strain 0.400 %, Temperature -40.0 °C	@Strain 0.400 %, Temperature -40.0 °F	
	16.03 MPa	2325 psi	DAM; ISO 11403-1/-2
	@Strain 1.50 %, Temperature 80.0 °C	@Strain 1.50 %, Temperature 176 °F	
	16.66 MPa	2416 psi	DAM; ISO 11403-1/-2
	@Strain 0.800 %, Temperature 60.0 °C	@Strain 0.800 %, Temperature 140 °F	
	16.76 MPa	2431 psi	DAM; ISO 11403-1/-2
	@Strain 1.60 %, Temperature 80.0 °C	@Strain 1.60 %, Temperature 176 °F	
	17.68 MPa	2564 psi	DAM; ISO 11403-1/-2
	@Strain 1.70 %, Temperature 80.0 °C	@Strain 1.70 %, Temperature 176 °F	
	18.15 MPa	2632 psi	DAM; ISO 11403-1/-2
	@Strain 0.500 %, Temperature 23.0 °C	@Strain 0.500 %, Temperature 73.4 °F	
	18.28 MPa	2651 psi	DAM; ISO 11403-1/-2
	@Strain 0.400 %, Temperature 0.000 °C	@Strain 0.400 %, Temperature 32.0 °F	
	18.3 MPa	2650 psi	DAM; ISO 11403-1/-2
	@Strain 0.900 %, Temperature 60.0 °C	@Strain 0.900 %, Temperature 140 °F	
	18.53 MPa	2688 psi	DAM; ISO 11403-1/-2
	@Strain 1.80 %, Temperature 80.0 °C	@Strain 1.80 %, Temperature 176 °F	

Mechanical Properties	19.17 MPa Metric	2780 psi English	Comments DAM; ISO 11403-1/-2
	@Strain 1.90 %, Temperature 80.0 °C	@Strain 1.90 %, Temperature 176 °F	
	19.37 MPa	2809 psi	DAM; ISO 11403-1/-2
	@Strain 0.500 %, Temperature -40.0 °C	@Strain 0.500 %, Temperature -40.0 °F	
	19.8 MPa	2870 psi	DAM; ISO 11403-1/-2
	@Strain 2.00 %, Temperature 80.0 °C	@Strain 2.00 %, Temperature 176 °F	
	19.81 MPa	2873 psi	DAM; ISO 11403-1/-2
	@Strain 1.00 %, Temperature 60.0 °C	@Strain 1.00 %, Temperature 140 °F	
	20.42 MPa	2962 psi	DAM; ISO 11403-1/-2
	@Strain 2.10 %, Temperature 80.0 °C	@Strain 2.10 %, Temperature 176 °F	
	20.97 MPa	3041 psi	DAM; ISO 11403-1/-2
	@Strain 2.20 %, Temperature 80.0 °C	@Strain 2.20 %, Temperature 176 °F	
	21.32 MPa	3092 psi	DAM; ISO 11403-1/-2
	@Strain 1.10 %, Temperature 60.0 °C	@Strain 1.10 %, Temperature 140 °F	
	21.55 MPa	3126 psi	DAM; ISO 11403-1/-2
	@Strain 2.30 %, Temperature 80.0 °C	@Strain 2.30 %, Temperature 176 °F	
	21.74 MPa	3153 psi	DAM; ISO 11403-1/-2
	@Strain 0.600 %, Temperature 23.0 °C	@Strain 0.600 %, Temperature 73.4 °F	
	22.04 MPa	3197 psi	DAM; ISO 11403-1/-2
	@Strain 2.40 %, Temperature 80.0 °C	@Strain 2.40 %, Temperature 176 °F	
	22.39 MPa	3247 psi	DAM; ISO 11403-1/-2
	@Strain 0.500 %, Temperature 0.000 °C	@Strain 0.500 %, Temperature 32.0 °F	
	22.6 MPa	3280 psi	DAM; ISO 11403-1/-2
	@Strain 2.50 %, Temperature 80.0 °C	@Strain 2.50 %, Temperature 176 °F	
	23.01 MPa	3337 psi	DAM; ISO 11403-1/-2
	@Strain 2.60 %,	@Strain 2.60 %,	

Mechanical Properties	Temperature 80.0 °C	Temperature 176 °F	Comments
	Metric	English	
	23.01 MPa	3337 psi	
	@Strain 1.20 %, Temperature 60.0 °C	@Strain 1.20 %, Temperature 140 °F	DAM; ISO 11403-1/-2
	23.53 MPa	3413 psi	
	@Strain 0.600 %, Temperature -40.0 °C	@Strain 0.600 %, Temperature -40.0 °F	DAM; ISO 11403-1/-2
	23.54 MPa	3414 psi	
	@Strain 2.70 %, Temperature 80.0 °C	@Strain 2.70 %, Temperature 176 °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