

DuPont™ Zytel®

nylon resin

Zytel® FR7026V0F NC010

Zytel® FR7026V0F NC010 is a flame retardant polyamide 66 resin for injection molding. It does not contain elemental phosphorous, halogens or heavy metals.

Property	Test Method	Units	Value
			DAM
Identification			
Resin Identification	ISO 1043		PA66-FR(30)
Part Marking Code	ISO 11469		>PA66-FR(30)<
Mechanical			
Stress at Break	ISO 527	MPa (kpsi)	90 (13)
Strain at Break	ISO 527	%	14
Tensile Modulus	ISO 527	MPa (kpsi)	3750 (540)
Thermal			
Deflection Temperature 1.80MPa	ISO 75f	°C (°F)	70 (158)
Melting Temperature 10°C/min	ISO 11357-1/-3	°C (°F)	263 (505)
Electrical			
CTI	IEC 60112	V	600
CTI 3.0mm	UL 746A	V	600

Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc.

ISO Mechanical properties measured at 4.0mm, ISO Electrical properties measured at 2.0mm, and all ASTM properties measured at 3.2mm.

Test temperatures are 23°C unless otherwise stated.

During molding, use proper protective equipment and adequate ventilation. Avoid exposure to fumes and limit the hold up time and temperature of the resin in the machine. Purge degraded resin carefully with HDPE.

The DuPont Oval Logo, DuPont™, The miracles of science™ and Zytel® are trademarks or registered trademarks of DuPont Company. Copyright© 2005.

050615/050923

The information provided in this data sheet corresponds to our knowledge on the subject at the date of its publication. This information may be subject to revision as new knowledge and experience becomes available. The data provided fall within the normal range of product properties and relate only to the specific material designated; these data may not be valid for such material used in combination with any other materials, additives or pigments or in any process, unless expressly indicated otherwise. The data provided should not be used to establish specification limits or used alone as the basis of design; they are not intended to substitute for any testing you may need to conduct to determine for yourself the suitability of a specific material for your particular purposes. Since DuPont cannot anticipate all variations in actual end-use conditions DuPont makes no warranties and assumes no liability in connection with any use of this information. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent rights. DuPont advises you to seek independent counsel for a freedom to practice opinion on the intended application or end-use of our products. Caution: Do not use this product in medical applications involving permanent implantation in the human body. For other medical applications see "DuPont Medical Caution Statement", H-50102.

Zytel® FR7026V0F NC010

Property	Test Method	Units	Value
			DAM
Flammability			
Flammability Classification	IEC 60695-11-10		
0.82mm			V-0
1.5mm			V-0
3.0mm			V-0
Flammability Classification	UL94		
0.82mm			V-0
1.5mm			V-0
3.0mm			V-0
High Amperage Arc Ignition Resistance	UL 746A	arcs	
0.82mm			>150
1.5mm			>150
3.0mm			>150
Hot Wire Ignition	UL 746A	s	
0.82mm			17
1.5mm			26
3.0mm			57
Temperature Index			
RTI, Electrical	UL 746B	°C	
0.82mm			130
1.5mm			130
3.0mm			130
RTI, Impact	UL 746B	°C	
0.82mm			95
1.5mm			95
3.0mm			95
RTI, Strength	UL 746B	°C	
0.82mm			110
1.5mm			110
3.0mm			110

Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc.
 ISO Mechanical properties measured at 4.0mm, ISO Electrical properties measured at 2.0mm, and all ASTM properties measured at 3.2mm.
 Test temperatures are 23°C unless otherwise stated.

The DuPont Oval Logo, DuPont™, The miracles of science™ and Zytel® are trademarks or registered trademarks of DuPont Company. Copyright© 2005.

050615/050923

The information provided in this data sheet corresponds to our knowledge on the subject at the date of its publication. This information may be subject to revision as new knowledge and experience becomes available. The data provided fall within the normal range of product properties and relate only to the specific material designated; these data may not be valid for such material used in combination with any other materials, additives or pigments or in any process, unless expressly indicated otherwise. The data provided should not be used to establish specification limits or used alone as the basis of design; they are not intended to substitute for any testing you may need to conduct to determine for yourself the suitability of a specific material for your particular purposes. Since DuPont cannot anticipate all variations in actual end-use conditions DuPont makes no warranties and assumes no liability in connection with any use of this information. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent rights. DuPont advises you to seek independent counsel for a freedom to practice opinion on the intended application or end-use of our products. Caution: Do not use this product in medical applications involving permanent implantation in the human body. For other medical applications see "DuPont Medical Caution Statement", H-50102.

Zytel® FR7026V0F NC010

Property	Test Method	Units	Value
			DAM
Other			
Density	ISO 1183	kg/m ³ (g/cm ³)	1150 (1.15)
Molding Shrinkage	ISO 294-4	%	
Parallel, 2.0mm			1.2
Mold Shrinkage		%	
Flow, 1.6mm (0.062in)			0.8
Flow, 3.2mm (0.126in)			1.1
Transverse, 1.6mm (0.062in)			0.8
Transverse, 3.2mm (0.126in)			1.1
Processing			
Melt Temperature Range		°C (°F)	270-290 (520-555)
Melt Temperature Optimum		°C (°F)	280 (535)
Mold Temperature Range		°C (°F)	50-90 (120-190)
Mold Temperature Optimum		°C (°F)	70 (160)
Drying Time, Dehumidified Dryer		h	2-4
Drying Temperature		°C (°F)	80 (175)
Processing Moisture Content		%	<0.20

Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc.

ISO Mechanical properties measured at 4.0mm, ISO Electrical properties measured at 2.0mm, and all ASTM properties measured at 3.2mm.

Test temperatures are 23°C unless otherwise stated.

The DuPont Oval Logo, DuPont™, The miracles of science™ and Zytel® are trademarks or registered trademarks of DuPont Company. Copyright© 2005.

050615/050923

The information provided in this data sheet corresponds to our knowledge on the subject at the date of its publication. This information may be subject to revision as new knowledge and experience becomes available. The data provided fall within the normal range of product properties and relate only to the specific material designated; these data may not be valid for such material used in combination with any other materials, additives or pigments or in any process, unless expressly indicated otherwise. The data provided should not be used to establish specification limits or used alone as the basis of design; they are not intended to substitute for any testing you may need to conduct to determine for yourself the suitability of a specific material for your particular purposes. Since DuPont cannot anticipate all variations in actual end-use conditions DuPont makes no warranties and assumes no liability in connection with any use of this information. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent rights. DuPont advises you to seek independent counsel for a freedom to practice opinion on the intended application or end-use of our products. Caution: Do not use this product in medical applications involving permanent implantation in the human body. For other medical applications see "DuPont Medical Caution Statement", H-50102.