Product Information

DuPont[™] Zytel[®]

PRELIMINARY DATA

Zytel® FR7280V0 BK031

Zytel® FR7280V0 BK031 is an unreinforced, flame retardant polyamide 66/6 copolymer for injection molding. It is

modified for improved toughness and elongation at break.

Property	Test Method	Units	Value DAM
Identification			
Resin Identification	ISO 1043		PA66/6-FR(16)
Part Marking Code	ISO 11469		>PA66/6-FR(16)<
Mechanical			
Yield Stress	ISO 527	MPa (kpsi)	40 (6)
Yield Strain	ISO 527	%	56
Flexural Modulus	ISO 178	MPa (kpsi)	2300 (300)
Flexural Strength	ISO 178	MPa (kpsi)	72 (10)
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m ²	
-40°C (-40°F)			3
23°C (73°F)			5
Unnotched Charpy Impact Strength	ISO 179/1eU	kJ/m ²	
-40°C (-40°F)			69
23°C (73°F)			83

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 above data are preliminary and are subject to change as additional data are developed on subsequent lots.

 $The \ DuPont\ Oval\ Logo,\ DuPont^{TM},\ The\ miracles\ of\ science^{TM}\ and\ Zytel \\ @\ are\ trademarks\ or\ registered\ trademarks\ of\ DuPont\ Company.\ Copyright \\ @\ 2005.$

050913/050923

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.



Product Information

Zytel® FR7280V0 BK031

Property	Test Method	Units	Value	
			DAM	
Electrical				
Surface Resistivity	IEC 60093	ohm	4E15	
Volume Resistivity	IEC 60093	ohm m	1E13	
Dielectric Constant	IEC 60250	E-4		
1E2 Hz			3.3	
1E6 Hz			2.9	
Dissipation Factor	IEC 60250	E-4		
1E2 Hz			0.04	
1E6 Hz			0.02	
CTI	IEC 60112	V	200	
Other				
Density	ISO 1183	$kg/m^3 (g/cm^3)$	1360 (1.36)	
Molding Shrinkage	ISO 294-4	%		
Normal, 2.0mm			1.5	
Parallel, 2.0mm			1.6	
Processing				
Melt Temperature Range		°C (°F)	255-275 (490-530)	
Melt Temperature Optimum		°C (°F)	265 (510)	
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 above data are preliminary and are subject to change as additional data are developed on subsequent lots.

 $The \ DuPont \ Oval \ Logo, DuPont^{TM}, The \ miracles \ of \ science \\ ^{TM} \ and \ Zytel \\ @ \ are \ trademarks \ or \ registered \ trademarks \ of \ DuPont \ Company. \ Copyright \\ @ \ 2005. \\$

050913/050923

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.

