Zytel® FR70M30V0 BK010NYLON RESIN

DuPont Performance Polymers



Technical Data

30% Mineral Reinforced, Flame Retardar	ii, Polyamide oo			
General				
Material Status	Commercial: Active			
Literature ¹	Processing - Injection Molding (English)Typical Processing for DuPont Engineering Polymers (English)			
UL Yellow Card ²	• E41938-234506			
Search for UL Yellow Card	DuPont Performance PolymerZytel®	S		
Availability	 Africa & Middle East Asia Pacific Europe Latin America		North America	
Filler / Reinforcement	Mineral, 30% Filler by Weight			
Additive	Flame Retardant			
Features	Flame Retardant			
RoHS Compliance	Contact Manufacturer			
Processing Method	Injection Molding			
Part Marking Code (ISO 11469)	• >PA66-MD30FR(17)<			
Resin ID (ISO 1043)	• PA66-MD30FR(17)			
100 1040)	17100 MB00111(17)			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.62		g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.90		%	
Flow	0.80		%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	6200	4000	MPa	ISO 527-2
Tensile Stress (Break)	65.0	45.0	MPa	ISO 527-2
Tensile Strain (Break)	2.0	3.5	%	ISO 527-2
mpact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.5	2.5	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	20	18	kJ/m²	
23°C	20	25	kJ/m²	
Notched Izod Impact Strength (23°C)	2.0	2.5	kJ/m²	ISO 180/1A
[hermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature			0.0	ISO 75-2/A
1.8 MPa, Unannealed	145		°C	100 110== 0
Melting Temperature ⁴	263		°C	ISO 11357-3
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating	V 0			UL 94 IEC 60695-11-10
0.75 mm	· V-2			-20
1.5 mm	• V-0 • 5VA			
Oxygen Index	40		%	ISO 4589-2
FMVSS Flammability	DNI		70	FMVSS 302
Fill Analysis	Dry	Conditioned	Unit	1 101 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Ejection Temperature	210		°C	
_joulon formporataro	210			
njection		Dry Unit		
Drying Temperature	-	80 °C		

1 of 3

Form No. TDS-85324-en

Document Created: Thursday, November 3, 2016

DuPont Performance Polymers



www.ulprospector.com

njection	Dry Unit
Drying Time - Desiccant Dryer	2.0 to 4.0 hr
Suggested Max Moisture	0.20 %
Processing (Melt) Temp	285 to 305 °C
Melt Temperature, Optimum	295 °C
Mold Temperature	50 to 90 °C
Mold Temperature, Optimum	100 °C
Holding Pressure	50.0 to 100 MPa
Drying Recommended	yes
Hold Pressure Time	3.00 s/mm
Maximum Screw Tangential Speed	200 mm/sec

Notes

(U_L)

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.

^{4 10°}C/min

DuPont Performance Polymers



Where to Buy

Supplier

DuPont Performance Polymers
Wilmington, DE USA
Telephone: 302-999-4592
Web: http://plastics.dupont.com/

Distributor

Biesterfeld Plastic GmbH

Biesterfeld Plastic GmbH is a Pan European distribution company. Contact Biesterfeld Plastic GmbH for availability of individual products by

country.

Telephone: +49-40-32008-0

Web: http://www.biesterfeld-plastic.com/

Availability: Algeria, Austria, Belgium, Bosnia and Herzegovina, Brazil, Bulgaria, Croatia, Cyprus, Czech Republic, Egypt, France, Germany, Greece, Hungary, Italy, Libyan Arab Jamahiriya, Luxembourg, Mauritania, Morocco, Netherlands, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Switzerland, Tunisia, Turkey

CCC Plastics

Telephone: 800-465-6917 Web: http://www.cccplastics.com/

Availability: Canada

Distrupol Ltd

Distrupol Ltd is a Pan European distribution company. Contact Distrupol Ltd for availability of individual products by country.

Telephone: 08452003040 Web: http://www.distrupol.com/

Availability: Denmark, Finland, Ireland, Norway, Sweden, United Kingdom

PolyOne Distribution

PolyOne Distribution is a global distribution company. Contact PolyOne Distribution for availability of individual products by country.

Telephone: 800-894-4266

Web: http://polyonedistribution.com/

Availability: Global



Form No. TDS-85324-en