

Zytel® FR95G25V0NH NC010

NYLON RESIN

Product Description

Zytel® FR95G25V0NH NC010 is 25% glass fiber reinforced, flame retardant polyamide, halogen and red phosphorous free with high flow and excellent long term aging properties.

General

Material Status	• Preliminary Data ¹		
Availability	• Africa & Middle East • Asia Pacific • Central America	• Europe • Latin America • North America	• South America
Filler / Reinforcement	• Glass Fiber Reinforcement, 25% Filler by Weight		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		
Part Marking Code (ISO 11469)	• >PA-GF25FR<		
Resin ID (ISO 1043)	• PA-GF25FR		
Product Category	• Flame Retardant Resins	• Glass Reinforced Resins	

Physical	Dry	Conditioned	Unit	Test Method
Density	1.40	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow: 2.00 mm	0.60	--	%	
Flow: 2.00 mm	0.10	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	9500	8900	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	123	104	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.1	2.0	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-40°C	4.5	--	kJ/m ²	
23°C	5.4	5.7	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)	43	38	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature ³	267	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.400 mm)	V-0	--		UL 94
Glow Wire Flammability Index				IEC 60695-2-12
1.00 mm	960	--	°C	
2.00 mm	960	--	°C	
3.00 mm	960	--	°C	

Injection	Dry Unit
Drying Temperature	80.0 °C
Drying Time	2.0 to 4.0 hr
Suggested Max Moisture	< 0.20 %
Processing (Melt) Temp	270 to 290 °C
Melt Temperature, Optimum	270 °C
Mold Temperature	80.0 to 120 °C
Mold Temperature, Optimum	100 °C



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Notes

¹ The above data are preliminary and are subject to change as additional data are developed on subsequent lots.

² Typical properties: these are not to be construed as specifications.

³ 10°C/min

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 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 and disposal conditions, DuPont does not guarantee favorable results, makes no warranties and assumes no liability in connection with any use of this information. All such information is given and accepted at the buyer's risk. It is intended for use by persons having technical skill, at their own discretion and risk. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent. DuPont advises you to seek independent counsel for a freedom to practice opinion on the intended application or end-use of our products.

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