

Zytel® PLUS PLS95G35DH1 BK549 NYLON RESIN

Product Description

Zytel® PLS95G35DH1 BK549 is a high flow 35% glass reinforced PA using SHIELD Technology, only from DuPont, combining excellent surface appearance, excellent welding and fatigue retention, exceptional resistance in hot air & hot engine oil.

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, 35% Filler by Weight		
Part Marking Code (ISO 11469)	• >PA-GF35<		
Resin ID (ISO 1043)	• PA-GF35		

Physical	Nominal Value Unit	Test Method
Density	1.43 g/cm ³	ISO 1183
Molding Shrinkage		ISO 294-4
Across Flow: 2.00 mm	0.60 %	
Flow: 2.00 mm	0.10 %	

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus (23°C)	9100 MPa	ISO 527-2
Tensile Stress (Break, 23°C)	198 MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.4 %	ISO 527-2
Flexural Modulus (23°C)	10600 MPa	ISO 178
Flexural Strength (23°C)	316 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179/1eA
-40°C	12 kJ/m ²	
23°C	14 kJ/m ²	
Charpy Unnotched Impact Strength (23°C)	85 kJ/m ²	ISO 179/1eU

Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature		
0.45 MPa, Unannealed	261 °C	ISO 75-2/B
1.8 MPa, Unannealed	243 °C	ISO 75-2/A
Melting Temperature ³	265 °C	ISO 11357-3

Injection	Nominal Value Unit
Drying Temperature	80.0 °C
Drying Time	2.0 to 4.0 hr
Suggested Max Moisture	< 0.20 %
Processing (Melt) Temp	275 to 285 °C
Melt Temperature, Optimum	280 °C
Mold Temperature	70.0 to 120 °C
Mold Temperature, Optimum	100 °C

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



Zytel® PLUS PLS95G35DH1 BK549 NYLON RESIN

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.

CAUTION: Do not use DuPont materials in medical applications involving implantation in the human body or contact with internal body fluids or tissues unless the material has been provided from DuPont under a written contract that is consistent with DuPont policy regarding medical applications and expressly acknowledges the contemplated use. For further information, please contact your DuPont representative. You may also request a copy of DuPont POLICY Regarding Medical Applications H-50103-4 and DuPont CAUTION Regarding Medical Applications ... H-50102-4

To find out more, visit [DuPont Performance Polymers](#) or contact the nearest DuPont location.

North America

Tel: +1 302 999-4592

Toll-Free (USA): 800 441-0575

Asia Pacific

Tel: +81 3 5521 8600

Europe/Middle East/Africa

Tel: +41 22 717 51 11

