

Zytel® BM70G20HSLX BK537

NYLON RESIN

Product Description

Zytel® BM70G20HSLX BK537 is a 20% glass fiber reinforced polyamide 66 for blow molding.

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Filler / Reinforcement	• Glass Fiber Reinforcement, 20% Filler by Weight
RoHS Compliance	• Contact Manufacturer
Appearance	• Black
Processing Method	• Blow Molding
Part Marking Code (ISO 11469)	• >PA66-IGF20<
Resin ID (ISO 1043)	• PA66-IGF20
Product Category	• Blow Moldable Resins • Glass Reinforced Resins

Physical	Dry	Conditioned	Unit	Test Method
Density	1.25	--	g/cm ³	ISO 1183
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (73°F)	928000	580000	psi	ISO 527-2
Tensile Stress (Break, 73°F)	17400	10200	psi	ISO 527-2/5
Tensile Strain (Break, 73°F)	3.9	14	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (73°F)	6.7	7.1	ft-lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	34	34	ft-lb/in ²	ISO 179/1eU
Notched Izod Impact Strength (73°F)	4.3	4.3	ft-lb/in ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature 264 psi, Unannealed	459	--	°F	ISO 75-2/A
Melting Temperature ²	504	--	°F	ISO 11357-3
Additional Information	Dry	Conditioned	Unit	
Drying Temperature (Blow Molding)	212 to 230	--	°F	
Drying Time Dehumidified Dryer, Blow Molding	4.0 to 5.0	--	hr	
Melt Temperature (Blow Molding)	545 to 581	--	°F	
Processing Moisture Content (Blow Molding)	< 0.050	--	%	

Injection	Dry Unit
Melt Temperature, Optimum (Blow Molding)	554 °F
Drying Recommended	Yes, if moisture content of resin exceeds recommended level

Notes

¹ Typical properties: these are not to be construed as specifications.

² 10°C/min

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Asia Pacific

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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 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 DuPont materials in medical application 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-50103-3 and DuPont CAUTION Regarding Medical Applications ... H-50102-3.

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