TECHNYL®

TECHNYL® A 548B V15 BLACK 23 N

TECHNICAL DATA SHEET

Revised: October, 2016

TECHNYL® A 548B V15 Black 23 N is a polyamide 66 reinforced with 15% of glass fibre, heat stabilized, impact modified, for blow moulding. This grade offers an excellent long term Heat resistance and is suitable to work in environments characterized by a very high temperature. It has been also specially designed to be perfectly suitable for blow moulding processing.

GENERAL

Material Status	• Commercial: Active	
Availability	• Africa & Middle East	• Europe
Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight	
Additive	• Heat Stabilizer	• Impact Modifier
Key Benefits	• Heat Aging Resistance • High Impact Resistance	• High Melt Strengh • High Viscosity
Applications	• Automotive applications • Engine air circuit	• Motorcycles • Turbocharger air ducts
Certification/Compliance	• EC 1907/2006 (REACH)	
RoHS Compliance	• RoHS Compliant	
Colors Available	• Black	
Forms	• Pellets	
Processing Method	• Blow Molding	
Resin ID (ISO 1043)	• PA66-GF15	

PROPERTIES

Typical values of properties are for Black grades

Physical	Dry	Conditioned	Unit	Test Method
Density	1.20		g/cm³	ISO 1183/A

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	5200	3500	MPa	ISO 527-2/1A
Tensile Stress (Break, 23°C)	100	60	MPa	ISO 527-2/1A
Tensile Strain (Break, 23°C)	5.0	9.0	%	ISO 527-2
Flexural Modulus (23°C)	4100		MPa	ISO 178
Flexural Stress (23°C)	130		MPa	ISO 178
Charpy Notched Impact Strength (23°C)	11	20	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	68	80	kJ/m²	ISO 179/1eU
Notched Izod Impact Strength (23°C)	13		kJ/m²	ISO 180
Unnotched Izod Impact Strength (23°C)	58		kJ/m²	ISO 180/1U

Solvay Engineering Plastics
www.solvay.com - www.technyl.com

Tel: 00 800 55 400 600
technyl-emea@solvay.com - Europe, Middle East, Africa
technyl-apac@solvay.com - Asia Pacific
technyl-americas@solvay.com - Americas

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				ISO 75-2/Af
1.8 MPa, Unannealed	215		°C	
Melting Temperature	242		°C	ISO 11357-3

Extrusion	Dry	Unit
Suggested Max Moisture	0.080	%
Cylinder Zone 1 Temp.	250 to 270	°C
Cylinder Zone 2 Temp.	255 to 275	°C
Adapter Temperature	260 to 280	°C
Die Temperature	270 to 290	°C

Extrusion Notes

The material is supplied in airtight bags, ready for use. In case that the virgin material has absorbed moisture, it must be dried with a dehumidified air drying equipment.

Blow Molding Mold Temperature: 60 to 80°C

Blow Molding Head Temperature: 270 to 290°C

DISCLAIMER

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Tel: 00 800 55 400 600
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technyl-americas@solvay.com - Americas

SAFETY INFORMATION

Detailed information regarding safety are available on the safety data sheet (SDS). SDS is sent with the first material order or available by contacting our customer services

REGULATIONS COMPLIANCE

This product is not intended to be used for the following regulated market: food contact, drinking water, toys, cosmetics or medical devices.

This grade complies with ROHS Directive 2011/65/EU and 2015/863 as amended.

Grades produced or imported in Europe comply with REACH directive 1907/2006/EC as amended.

CUSTOMER SERVICES

Our customer services are not only concerned with manufacturing and supply of Engineering Plastics products. We are available to assist our customers in finding technical solutions that meet their requirements. Specific support is in particular offered on:

- Material selection
- Material testing
- Parts design advice, training for design engineers
- Part testing
- Design simulation
- Processing through different technologies
- Assembly and post-processing technology expertise
- Parts optimization through Computer Aided Design

You can find more information on Solvay Product range on our internet product finder at the following address: http://www.technyl.com

Notes

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