

TECHNYL® A 548B2 V15 Black 23N is a polyamide 6.6, 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 • Asia Pacific	• Europe
Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight	
Additive	• Heat Stabilizer	• Impact Modifier
Key Benefits	• Heat Aging Resistance • Heat Stabilized (Inorganic)	• High Melt Strength • 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
Molding Shrinkage				ISO 294-4
Across Flow	1.0		%	
Flow	0.35		%	
Density	1.20		g/cm ³	ISO 1183/A
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	4900	3000	MPa	ISO 527-2/1A
Tensile Stress (Break, 23°C)	90	57	MPa	ISO 527-2/1A
Tensile Strain (Break, 23°C)	4.7	8.8	%	ISO 527-2
Flexural Modulus (23°C)	4500		MPa	ISO 178
Flexural Stress (23°C)	145		MPa	ISO 178
Charpy Notched Impact Strength (23°C)	14		kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	65	79	kJ/m ²	ISO 179/1eU

Thermal	Dry	Conditioned Unit	Test Method
Heat Deflection Temperature 1.8 MPa, Unannealed	210	°C	ISO 75-2/Af
Melting Temperature	260	°C	ISO 11357-3

Extrusion	Dry Unit
Suggested Max Moisture	0.080 %
Cylinder Zone 1 Temp.	260 to 280 °C
Cylinder Zone 2 Temp.	270 to 290 °C
Adapter Temperature	275 to 295 °C
Die Temperature	280 to 300 °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: 70 to 90°C

Blow Molding Head Temperature: 280 to 300°C

DISCLAIMER

The information contained in this document is given in good faith based on our current knowledge. It is only an indication and it is in no way binding. This information must on no account be used as a substitutive for necessary prior tests which alone can ensure that a product is suitable for a given use. ANY WARRANTY OF PRODUCT PERFORMANCE, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS EXPRESSLY EXCLUDED. Users are responsible for ensuring compliance with local legislation and for obtaining the necessary certifications and authorizations. Users are requested to check that they are in possession of the latest version of this document, and Solvay is at their disposal to supply any additional information.

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.

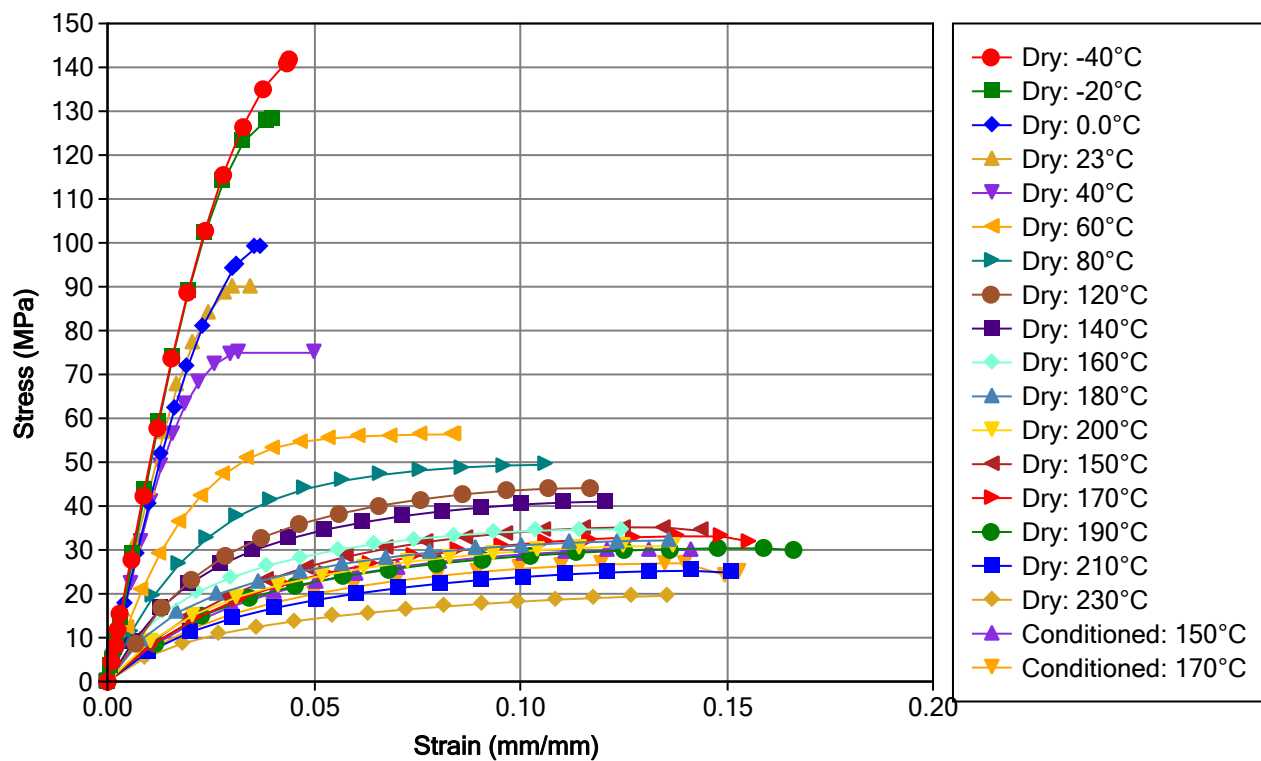
CUSTOMER SERVICES

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

MULTIPOINT DATA

Isothermal Stress vs. Strain (ISO 11403-1)



Viscosity vs. Shear Rate (ISO 11403-2)

