TECHNYL® C 548B V25 NATURAL (XC 3187)

TECHNICAL DATA SHEET

Revised: February, 2018

TECHNYL® C 548B V25 natural (XC 3187) is a polyamide 6, reinforced with 25% of glass fiber, high viscosity, for extrusion blow-moulding. This grade offers an optimal processing behavior in blow moulding processes. Specific features are high barrier properties, high melt strength resistance, and excellent surface aspect.

The results shown are based on an experimental grade produced at laboratory scale. These results will be further enhanced and improved as industrial lots will be produced and statistical data calculated.

GENERAL

Material Status	• Pending Approval	
Availability	• Latin America	
Filler / Reinforcement	• Glass Fiber, 25% Filler by Weight	
Additive	• Heat Stabilizer	• Impact Modifier
Key Benefits	• High Impact Resistance • High Melt Strengh	• Superior Surface Finish • High Viscosity
Applications	• Automotive applications • Engine air circuit	• Motorcycles • Turbocharger air ducts
Certification/Compliance	• EC 1907/2006 (REACH)	
RoHS Compliance	• RoHS Compliant	
Colors Available	• Natural Color	
Forms	• Pellets	
Processing Method	• Blow Molding	
Resin ID (ISO 1043)	• PA6-GF25	

PROPERTIES

Typical values of properties are for Black grades

Physical	Dry	Conditioned	Unit	Test Method
Melt Mass-Flow Rate (MFR) (275°C/10.0 kg)	21		g/10 min	ISO 1133
Density	1.22		g/cm³	ISO 1183/A

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Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	6900		MPa	ISO 527-2/1A
Tensile Stress				ISO 527-2/1A
Yield	100		MPa	
Break, 23°C	100		MPa	
Tensile Strain				ISO 527-2/1A
Yield	3.0		%	
Break, 23°C	3.0		%	
Charpy Notched Impact Strength (23°C)	20		kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	70		kJ/m²	ISO 179/1eA

Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature	224		°C	ISO 11357-3

Extrusion	Dry	Unit
Suggested Max Moisture	0.10	%
Adapter Temperature	220 to 240	°C
Head Temperature	240 to 260	°C
Die Temperature	215 to 235	°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: 240 to 260°C

DISCLAIMER

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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

Notes

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