

TECHNYL®

TECHNYL® A 248M BLACK 21N

TECHNICAL DATA SHEET

Revised: August, 2017

TECHNYL® A 248M Black 21N is an unfilled polyamide 6.6, heat stabilized, impact modified, for injection moulding. This grade offers an excellent impact resistance, even at low temperature.

GENERAL

Material Status	• Commercial: Discontinued
Availability	• Africa & Middle East • Europe
Additive	• Impact Modifier
Key Benefits	• Heat Aging Resistance • Low Temperature Impact Resistance • Heat Stabilized (Inorganic) • Good Mold Release • High Impact Resistance
Applications	• Automotive applications • Power tool housings • Cable ties • Shoe soles • Consumer and Industrial applications • Ski bindings • Outdoors activities • Sports equipment
Certification/Compliance	• EC 1907/2006 (REACH)
RoHS Compliance	• RoHS Compliant
Colors Available	• Black
Forms	• Pellets
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PA66

Mechanical	Dry Unit	Test Method
Tensile Modulus (23°C)	1900 MPa	ISO 527-2/1A
Tensile Stress (Break, 23°C)	48 MPa	ISO 527-2/1A
Tensile Strain (Break, 23°C)	49 %	ISO 527-2
Flexural Modulus (23°C)	1410 MPa	ISO 178
Flexural Stress (23°C)	65.0 MPa	ISO 178
Charpy Notched Impact Strength (23°C)	87 kJ/m ²	ISO 179/1eA

Thermal	Dry Unit	Test Method
Melting Temperature	263 °C	ISO 11357-3

PROCESSING

Solvay Engineering Plastics

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Injection	Dry Unit
Drying Temperature	80 °C
Suggested Max Moisture	0.20 %
Rear Temperature	265 to 275 °C
Middle Temperature	270 to 280 °C
Front Temperature	280 to 285 °C
Mold Temperature	60 to 80 °C

Injection 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, dew point mini -20°C. Recommended time 2-4h

Injection Advice:

- For unfilled polyamides, Solvay recommends the use of high alloy steel with a low chromium content. For example: X38CrMoV5-1 (EN Norm) - 1.2367 /1.2343 (DIN Norm). In the case of high requirements on surface quality a mould temperature of up to 120°C can be considered.
- The processing parameters like processing temperatures are a recommendation and can be adjusted in function of injection machine size, part geometry / design

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

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.

