

TECHNYL®

TECHNYL® B 738 MX15 GREY 3279

TECHNICAL DATA SHEET

Revised: April, 2017

TECHNYL B 738 MX15 Grey 3279 is a copolyamide 6.6, reinforced with 15% of mineral filler, for injection moulding. This grade offers good mechanical Properties, good superficial aspect and dimensional stability.

GENERAL

| | |
|------------------------|--|
| Material Status | • Commercial: Active |
| Availability | • Latin America |
| Filler / Reinforcement | • Mineral, 15% Filler by Weight |
| Additive | • Heat Stabilizer |
| Key Benefits | • Good Dimensional Stability • Heat Stabilized (Inorganic) • Recycled • Good Surface Finish |
| Applications | • Automotive applications • Circuit Breaker • Electrical/Electronic Applications • Engine covers • Structural and Casing parts |
| Colors Available | • Black • Grey |
| Forms | • Pellets |
| Processing Method | • Injection Molding |
| Resin ID (ISO 1043) | • PA66/6-MD15 |

PROPERTIES

Typical values of properties are for Grey grades

| Physical | Dry | Conditioned | Unit | Test Method |
|---|------|-------------|-------------------|--------------|
| Water Absorption (24 hr, 23°C) | 1.2 | | % | ISO 62 |
| Density | 1.22 | | g/cm ³ | ISO 1183/A |
| Mechanical | Dry | Conditioned | Unit | Test Method |
| Tensile Modulus (23°C) | 4300 | | MPa | ISO 527-2/1A |
| Tensile Stress (Break, 23°C) | 59 | | MPa | ISO 527-2/1A |
| Tensile Strain (Break, 23°C) | 3.0 | | % | ISO 527-2 |
| Flexural Modulus (23°C) | 3700 | | MPa | ISO 178 |
| Flexural Stress (23°C) | 100 | | MPa | ISO 178 |
| Charpy Unnotched Impact Strength (23°C) | 60 | | kJ/m ² | ISO 179/1eU |
| Thermal | Dry | Conditioned | Unit | Test Method |
| Melting Temperature | 242 | | °C | ISO 11357-3 |

PROCESSING

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| Injection | Dry Unit |
|------------------------|---------------|
| Drying Temperature | 80 °C |
| Suggested Max Moisture | 0.20 % |
| Rear Temperature | 255 to 265 °C |
| Middle Temperature | 260 to 270 °C |
| Front Temperature | 270 to 280 °C |
| Mold Temperature | 70 to 100 °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 reinforced polyamides, Solvay recommends the use of steel with a high content of carbon, and purified for polishing, to avoid or limit the abrasion. For example: X38CrMoV5-1 (EN Norm) - 1.2367 /1.2343 (DIN Norm) or X160CrMoV12 (EN Norm) - 1.2601 /1.2379 (DIN Norm). In the case of high requirements on surface quality a mould temperature of up to 120°C can be considered.

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.

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.

