TECHNYL®

TECHNYL® B 738 MX15 BLACK 61

TECHNICAL DATA SHEET

Revised: April, 2017

TECHNYL B 738 MX15 Black 61 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
RoHS Compliance	• RoHS Compliant	
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/cm³	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/m²	ISO 179/1eU

Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature	242		°C	ISO 11357-3

PROCESSING

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

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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, MERCHANDABILITY 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.

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.