

Technical Data Sheet

Polyfort M-1812 BK3071BLK



Polypropylene, Homopolymer

Product Description

Polyfort M-1812 BK3071BLK is a Polypropylene Homopolymer Talc, 45% filled material. Features include: Homopolymer.

Regulatory Status

For regulatory compliance information, see M-1812 BK3071BLK [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	North America
Attribute	Homopolymer
Forms	Pellets
Filler/Reinforcement	Talc, 45%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	20	g/10 min	ASTM D1238
Density - Specific Gravity	1.29	g/cm ³	ASTM D792
Mechanical			
Tensile Strength, (23 °C)	31.0	MPa	ASTM D638
Tensile Elongation at Yield, (23 °C)	9.0	%	ASTM D638
Flexural Modulus, (23 °C, Tangent)	4480	MPa	ASTM D790
Tensile Modulus, (23 °C)	4650	MPa	ASTM D638
Flexural Strength, (23 °C)	53.1	MPa	ASTM D790
Impact			
Notched Izod Impact, (23 °C, 3.18 mm)	27	J/m	ASTM D256
Hardness			
Rockwell Hardness, (R-Scale)	95 to 100		ASTM D785
Thermal			
Deflection Temperature Under Load Unannealed (264 psi)	116	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	146	°C	ASTM D648
Additional Information			
Water Absorption at 24 hrs	0.03	%	ASTM D570



Injection Parameters	Nominal Value	Units
Drying Time	2	hr
Drying Temperature	77	°C
Suggested Max Moisture	0.2	%
Nozzle Temperature	182 to 193	°C
Processing (Melt) Temp	199 to 232	°C
Front Temperature	182 to 199	°C
Middle Temperature	204 to 227	°C
Rear Temperature	199 to 210	°C
Injection Rate	Moderate-Fast	
Back Pressure	0.00 to 0.689	MPa
Mold Temperature	32 to 71	°C

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

© LyondellBasell Industries Holdings, B.V. 2018

Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

Trademarks

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.