

# Polyfort M-1812 BK3071BLK

## LyondellBasell Industries - Polypropylene Homopolymer

### General Information

#### Product Description

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

#### General

Filler / Reinforcement	• Talc, 45% Filler by Weight
Features	• Homopolymer
Forms	• Pellets

### Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.29		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20	g/10 min	ASTM D1238
Water Absorption (24 hr)	0.030	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	674000	psi	ASTM D638
Tensile Strength (73°F)	4500	psi	ASTM D638
Tensile Elongation (Yield, 73°F)	9.0	%	ASTM D638
Flexural Modulus - Tangent (73°F)	650000	psi	ASTM D790
Flexural Strength (73°F)	7700	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	0.51	ft-lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	95 to 100		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	295	°F	ASTM D648
Deflection Temperature Under Load 264 psi, Unannealed	241	°F	ASTM D648

### Processing Information

Injection	Nominal Value	Unit
Drying Temperature	171	°F
Drying Time	2.0	hr
Suggested Max Moisture	0.20	%
Rear Temperature	390 to 410	°F
Middle Temperature	399 to 441	°F
Front Temperature	360 to 390	°F
Nozzle Temperature	360 to 379	°F
Processing (Melt) Temp	390 to 450	°F
Mold Temperature	90 to 160	°F
Injection Rate	Moderate-Fast	
Back Pressure	0.00 to 99.9	psi