

Technical Data Sheet

Polyfort FPP 1151E-31 40 BLACK



Polypropylene, Unspecified (PP, Unspecified)

Product Description

Extrusion grade, 40% calcium carbonate filled, high molecular weight polypropylene.

Regulatory Status

For regulatory compliance information, see Polyfort FPP 1151E-31 40 BLACK [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	North America
Processing Method	Extrusion; Injection Molding
Filler/Reinforcement	Calcium Carbonate, 40%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate			
(230 °C/2.16 kg)	0.30 to 0.60	g/10 min	ISO 1133
(230 °C/2.16 kg)	0.30 to 0.60	g/10 min	ASTM D1238
Melt Volume Flow Rate, (230 °C/2.16 kg)	0.30 to 0.60	cm ³ /10 min	ASTM D1238
Density - Specific Gravity	1.26	g/cm ³	ASTM D792
Mechanical			
Tensile Strength at Yield, (50 mm/min, 23 °C)	24.0	MPa	ASTM D638
Tensile Stress at Yield, (23 °C, 50 mm/min)	25.0	MPa	ISO 527-2
Flexural Modulus			
(1.3 mm/min, 23 °C, Tangent)	2300	MPa	ASTM D790
(23 °C, 2.0 mm/min, Tangent)	2800	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched, (23 °C, Injection Molded)	10	kJ/m ²	ISO 179
Notched Izod Impact Strength, (23 °C, Injection Molded)	10	kJ/m ²	ISO 180
Notched Izod Impact, (23 °C, Injection Molded)	130	J/m	ASTM D256
Hardness			
Rockwell Hardness, (R-Scale)	88		ASTM D785
Thermal			
Deflection Temperature Under Load Unannealed (1.80 MPa)	62	°C	ISO 75-2/A
Deflection Temperature Under Load Unannealed (264 psi)	58	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	100	°C	ASTM D648
Additional Information			
Filler Content	40	%	ASTM D5630



Injection Parameters	Nominal Value	Units
Drying Time	2.0 to 3.0	hr
Drying Temperature	80	°C
Processing (Melt) Temp	220 to 260	°C
Injection Rate	Moderate-Fast	
Mold Temperature	30 to 60	°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/>.

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