

Technical Data Sheet
POLYFORT® FPP 1642
 Polypropylene
 Engineering Plastics



Product Description

PP 70% Barium Sulfate

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Barium Sulfate, 70% Filler by Weight
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	2.06	2.05 g/cm ³	ASTM D792
Molding Shrinkage - Flow ¹	0.011 in/in	1.1 %	Internal Method

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ² (Yield)	2470 psi	17.0 MPa	ASTM D638
Flexural Modulus ³	566000 psi	3900 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact	0.45 ft·lb/in	24 J/m	ASTM D256

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	230 °F	110 °C	
264 psi (1.8 MPa), Unannealed	153 °F	67.0 °C	

Additional Information	Nominal Value (English)	Nominal Value (SI)	Test Method
Filler Content	70 %	70 %	ASTM D5630

Notes

- ¹ 5x7 in plaque
- ² 2.0 in/min (50 mm/min)
- ³ 0.051 in/min (1.3 mm/min)

Notes

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