

Technical Data Sheet

OPTUM[®] DPP30WF07BK

Polyolefin

Engineering Plastics



General			
Filler / Reinforcement	• Calcium Carbonate, 32% Filler by Weight		
Uses	• Food Packaging		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.18	1.18 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.2 g/10 min	1.2 g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	0.010 in/in	1.0 %	
Across Flow	0.014 in/in	1.4 %	

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (73°F (23°C))	3600 psi	24.8 MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	75 %	75 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F (23°C)	248000 psi	1710 MPa	
Tangent : 73°F (23°C)	326000 psi	2250 MPa	
Flexural Strength (73°F (23°C))	5600 psi	38.6 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	2.5 ft·lb/in	130 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	9.0 ft·lb/in	480 J/m	ASTM D4812
Gardner Impact (73°F (23°C))	290 in·lb	32.8 J	ASTM D5420

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	208 °F	97.8 °C	
264 psi (1.8 MPa), Unannealed	132 °F	55.6 °C	

Notes

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

