

Technical Data Sheet

OPTUM[®] DPP40WI05WH

Polyolefin

Engineering Plastics



General			
Filler / Reinforcement	• Calcium Carbonate, 42% Filler by Weight		
Uses	• Food Packaging		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.30	1.30 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.40 g/10 min	0.40 g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	8.0E-3 in/in	0.80 %	
Across Flow	0.012 in/in	1.2 %	

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (73°F (23°C))	2800 psi	19.3 MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	35 %	35 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F (23°C)	250000 psi	1720 MPa	
Tangent : 73°F (23°C)	295000 psi	2030 MPa	
Flexural Strength (73°F (23°C))	4900 psi	33.8 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	2.6 ft·lb/in	140 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	No Break	No Break	ASTM D4812
Gardner Impact (73°F (23°C))	180 in·lb	20.3 J	ASTM D5420

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	205 °F	96.1 °C	
264 psi (1.8 MPa), Unannealed	150 °F	65.6 °C	

Notes

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

