Technical Data Sheet

OPTUM® DPP30WA05BK

Polyolefin
Engineering Plastics

General	
Filler / Reinforcement	• Talc, 30% Filler by Weight
Uses	• Food Packaging
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.16	1.16 g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.3 g/10 min	1.3 g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	0.013 in/in	1.3 %	
Across Flow	0.016 in/in	1.6 %	
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Strength (73°F (23°C))	4500 psi	31.0 MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	25 %	25 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F (23°C)	313000 psi	2160 MPa	
Tangent : 73°F (23°C)	412000 psi	2840 MPa	
Flexural Strength (73°F (23°C))	7000 psi	48.3 MPa	ASTM D790
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Notched Izod Impact (73°F (23°C))	1.0 ft·lb/in	53 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	13 ft·lb/in	670 J/m	ASTM D4812
Gardner Impact (73°F (23°C))	65.0 in·lb	7.34 J	ASTM D5420
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	242 °F	117 °C	
264 psi (1.8 MPa), Unannealed	152 °F	66.7 °C	

Notes

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