

OPTUM® DPP40WI05WH

Polyolefin

Ferro Corporation

Message:

OPTUM® DPP40WI05WH is a Polyolefin material filled with 42% calcium carbonate. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.
Typical application of OPTUM® DPP40WI05WH: Packaging

General Information			
Filler / Reinforcement	Calcium Carbonate,42% Filler by Weight		
Uses	Food Packaging		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.40	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	0.80	%	
Across Flow	1.2	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	19.3	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	35	%	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 23°C	1720	MPa	
Tangent : 23°C	2030	MPa	
Flexural Strength (23°C)	33.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	140	J/m	ASTM D256
Unnotched Izod Impact (23°C)	No Break		ASTM D4812
Gardner Impact (23°C)	20.3	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	96.1	°C	
1.8 MPa, Unannealed	65.6	°C	

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Recommended distributors for this material

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