

Spartech Polycom EP5140 A1

Polypropylene Homopolymer

Spartech Polycom

Message:

40% Talc Filled Extrusion Grade Polypropylene, Natural compound offers a high level of stiffness and heat deflection performance balanced with excellent processability. The nominal melt flow of 1.0 g/10min. makes this product ideal for sheet extrusion / thermoforming applications up to 100 mil thickness. A Spartech Polycom representative can provide more information concerning this and other products.

General Information	
Filler / Reinforcement	Talc filler, 40% filler by weight
Features	Rigid, good
	High strength
	Homopolymer
	Heat resistance, high
Uses	Food container
Appearance	Natural color
Forms	Particle
Processing Method	Blow molding
	Extrusion
	Thermoforming
	Profile extrusion molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.25	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (224°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	0.90	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	34.5	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	3.0	%	ASTM D638
Fracture	30	%	ASTM D638
Flexural Modulus - Secant	2480	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	43	J/m	ASTM D256
Dart Drop Impact (23°C)	0.113	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	138	°C	ASTM D648
1.8 MPa, not annealed	79.4	°C	ASTM D648

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