

Spartech Polycom PE4120

High Density (HMW) Polyethylene
Spartech Polycom

Message:

Spartech Polycom PE4120 is a high density (HMW) polyethylene product, which contains 20% talc filler. It can be processed by blow molding or sheet extrusion molding and is available in North America. Typical application areas are: automotive industry.

Features include:

- high molecular weight
- Good dimensional stability
- Good stiffness
- Impact resistance

General Information	
Filler / Reinforcement	Talc filler, 20% filler by weight
Features	Good dimensional stability
	Rigid, good
	High molecular weight
	Impact resistance, good
Uses	Application in Automobile Field
Forms	Particle
Processing Method	Blow molding
	Sheet extrusion molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	1.6	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	40.0	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	7.0	%	ASTM D638
Fracture	15	%	ASTM D638
Flexural Modulus	1450	MPa	ASTM D790
Flexural Strength	44.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	No Break		ASTM D256
Dart Drop Impact			ASTM D3029
-30°C	1.13	J	ASTM D3029
23°C	2.82	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, annealed	93.3	°C	ASTM D648

1.8 MPa, not annealed	46.1	°C	ASTM D648
Additional Information			

Flexural Modulus-Tangent, ASTM D790: 280,000 psi.

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