

Spartech Polycom PE4312

High Density (HMW) Polyethylene
Spartech Polycom

Message:

Spartech Polycom PE4312 is a high density (HMW) polyethylene product, which contains 12% mica filler. It can be processed by blow molding, sheet extrusion molding or thermoforming, 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	Mica filler, 12% 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
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	1.8	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	30.3	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	8.0	%	ASTM D638
Fracture	20	%	ASTM D638
Flexural Modulus - Secant	1100	MPa	ASTM D790
Flexural Strength	40.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	270	J/m	ASTM D256
Dart Drop Impact			ASTM D3029
-30°C	0.904	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, not annealed	87.8	°C	ASTM D648
1.8 MPa, not annealed	43.3	°C	ASTM D648

Additional Information

Flexural Modulus, ASTM D790, Tangent: 220000 psi

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