

ALCOM® PS 500/1 VD120 GF30

General Purpose Polystyrene

ALBIS PLASTIC GmbH

Message:

ALCOM® PS 500/1 VD120 GF30 is a General Purpose Polystyrene product filled with 30% glass fiber. It can be processed by injection molding and is available in Asia Pacific, Europe, or North America. Applications of ALCOM® PS 500/1 VD120 GF30 include medical/healthcare and housings.

Characteristics include:

REACH Compliant

RoHS Compliant

Good Mold Release

Heat Stabilizer

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Heat Stabilizer		
Features	Good Mold Release		
	Heat Stabilized		
Uses	Housings		
	Medical/Healthcare Applications		
	Personal Care		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.32	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (200°C/5.0 kg)	1.00	cm³/10min	ISO 1133
Moisture - Karl Fischer	0.10	%	ISO 15512
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8850	MPa	ISO 527-2
Tensile Stress	60.0	MPa	ISO 527-2
Tensile Strain (Break)	1.0	%	ISO 527-2
Flexural Modulus	9000	MPa	ISO 178
Flexural Stress	100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	3.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
--	11	kJ/m²	
-40°C	11	kJ/m²	
-20°C	11	kJ/m²	

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	100	°C	ISO 75-2/A
Vicat Softening Temperature	105	°C	ISO 306/B50
Injection	Nominal Value	Unit	
Drying Temperature			
Circulation Dryer	60.0 to 80.0	°C	
Desiccant Dryer	60.0 to 80.0	°C	
Drying Time			
Circulation Dryer	2.0 to 3.0	hr	
Desiccant Dryer	2.0 to 3.0	hr	
Processing (Melt) Temp	180 to 260	°C	
Mold Temperature	10.0 to 70.0	°C	

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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