

ALCOM® PBT 700/1 GF20 PTFE15

Polybutylene Terephthalate

ALBIS PLASTIC GmbH

Message:

ALCOM® PBT 700/1 GF20 PTFE15 is a Polybutylene Terephthalate (PBT) product filled with 20% glass fiber. It is available in Asia Pacific, Europe, or North America. Applications of ALCOM® PBT 700/1 GF20 PTFE15 include engineering/industrial parts and automotive.

Characteristics include:

REACH Compliant

RoHS Compliant

High Stiffness

Lubricated

Wear Resistant

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Good Wear Resistance		
	High Stiffness		
Uses	Automotive Applications		
	Bearings		
	Gears		
	Machine/Mechanical Parts		
	Wheels		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Physical	Nominal Value	Unit	Test Method
Density	1.54	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	10.0	cm³/10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7200	MPa	ISO 527-2
Tensile Stress (Break)	110	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Flexural Modulus	6600	MPa	ISO 178
Flexural Stress	170	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	7.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength	50	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	215	°C	ISO 75-2/A

Vicat Softening Temperature	200	°C	ISO 306/B50
Injection	Nominal Value	Unit	
Drying Temperature			
Circulation Dryer	100 to 120	°C	
Desiccant Dryer	100 to 120	°C	
Drying Time			
Circulation Dryer	4.0 to 8.0	hr	
Desiccant Dryer	2.0 to 4.0	hr	
Processing (Melt) Temp	250 to 270	°C	
Mold Temperature	80.0 to 120	°C	

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