ALCOM® PBT 700/8 GF15 PTFE15

Polybutylene Terephthalate

ALBIS PLASTIC GmbH

Message:

ALCOM® PBT 700/8 GF15 PTFE15 is a polybutene terephthalate (PBT) product, which contains a filler of 15% glass fiber reinforcement. It can be processed by injection molding and is available in North America, Europe or the Asia-Pacific region. ALCOM® The application fields of PBT 700/8 GF15 PTFE15 include engineering/industrial accessories and automobile industry. Features include: Comply with REACH standard ROHS certification High stiffness

Wear-resistant

heat stabilizer

General Information					
Filler / Reinforcement	Glass fiber reinforced material, 15% filler by weight				
Additive	PTFE lubricant (15%)				
	heat stabilizer				
Features	Rigidity, high				
	Good wear resistance				
	Hydrolysis resistance				
	Thermal Stability				
	Lubrication				
Uses	Wheels				
	Gear				
	Machine/mechanical parts				
	Application in Automobile Field				
	Bearing				
Agency Ratings	EC 1907/2006 (REACH)				
RoHS Compliance	RoHS compliance				
Processing Method	Injection molding				
Physical	Nominal Value	Unit	Test Method		
Density	1.52	g/cm³	ISO 1183		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Modulus	6200	MPa	ISO 527-2		
Tensile Stress (Break)	100	MPa	ISO 527-2		
Tensile Strain (Break)	3.0	%	ISO 527-2		
Flexural Modulus	5400	MPa	ISO 178		
Flexural Stress	155	MPa	ISO 178		
Impact	Nominal Value	Unit	Test Method		

Charpy Notched Impact Strength (23°C)5.0kJ/m²ISO 179/1eACharpy Unnotched Impact Strength (23°C)50kJ/m²ISO 179/1eUThermalNominal ValueUnitTest MethodHeat Deflection Temperature (1.8 MPa, Unannealed)210°CISO 75-2/AVicat Softening Temperature200°CISO 306/B50InjectionNominal ValueUnitTest MethodDrying Temperature00 - 120°CSO 306/B50Dehumidification desiccant100 - 120°CSO 179/1eUDrying Time100 - 120°CSO 120SO 120Processing (Melt) Temp2.0 - 4.0hrSO 120°CMold Temperature250 - 275°CSO 120°C				
ThermalNominal ValueUnitTest MethodHeat Deflection Temperature (1.8 MPa, Unannealed)210°CISO 75-2/AVicat Softening Temperature200°CISO 306/B50InjectionNominal ValueUnitDrying Temperature100 - 120°CDehumidification desiccant100 - 120°CIngertine100 - 120°CDrying Time2.0 - 4.0hrHot air dryer2.0 - 4.0hrHot air dryer2.0 - 4.0hr	Charpy Notched Impact Strength (23°C)	5.0	kJ/m²	ISO 179/1eA
Heat Deflection Temperature (1.8 MPa, Unannealed) 210 °C ISO 75-2/A Vicat Softening Temperature 200 °C ISO 306/B50 Injection Nominal Value Unit C Drying Temperature 100 - 120 °C C Dehumidification desiccant 100 - 120 °C C Drying Time 100 - 120 °C C Drying Time 200 - 120 °C C Processing (Melt) Temp 200 - 275 °C C	Charpy Unnotched Impact Strength (23°C)	50	kJ/m²	ISO 179/1eU
Unannealed)210°CISO 75-2/AVicat Softening Temperature200°CISO 306/B50InjectionNominal ValueUnitDrying Temperature100 - 120°CHot air dryer100 - 120°CDrying Time°CDehumidification desiccant100 - 8.0hrHot air dryer2.0 - 4.0hrProcessing (Melt) Temp250 - 275°C	Thermal	Nominal Value	Unit	Test Method
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Drying TimeDehumidification desiccant4.0 - 8.0Hot air dryer2.0 - 4.0Processing (Melt) Temp250 - 275°C	Dehumidification desiccant	100 - 120	°C	
Dehumidification desiccant4.0 - 8.0hrHot air dryer2.0 - 4.0hrProcessing (Melt) Temp250 - 275°C	Hot air dryer	100 - 120	°C	
Hot air dryer2.0 - 4.0hrProcessing (Melt) Temp250 - 275°C	Drying Time			
Processing (Melt) Temp 250 - 275 °C	Dehumidification desiccant	4.0 - 8.0	hr	
	Hot air dryer	2.0 - 4.0	hr	
Mold Temperature 80 - 120 °C	Processing (Melt) Temp	250 - 275	°C	
	Mold Temperature	80 - 120	°C	

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