

Allamid 30GF

30% Glass fiber reinforced Polyamid compound

TECHNICAL DATA SHEET

Product description

30% Glass Fiber reinforced Polyamid compound for injection moulding application.

Application

Automotive industry
Plastic Furniture
White goods

Properties	Test conditions	Test method	Unit	Value
Physical properties				
Density		ISO 1183	g/cm ³	min 1,32 - max 1,36
Ash content		ISO 3451	%	min 29- max 31
Moisture Content		ISO 787/2	%	max 0,2
Mold Shrinkage	Parallel,23°C Perpendicular,23°C	Allcomp Method	%	0,2 1
* Hardness and density can be vary on customer requirements				
Mechanical properties				
Tensile Modulus	23°C	ISO 527	MPa	min 8500- max 9500
Tensile Stress at Break	23°C	ISO 527	MPa	min 170 - max 190
Elongation at Break	23°C	ISO 527	%	min 2,9 - max 3,2
Notched Impact Strength Izod	23°C 23°C	ISO 180/1A	kJ/m ²	min 10 - max 14
Thermal properties				
Heat Deflection Temperature	0,45 MPa	ISO 75-2	°C	min 225 - max 235



Properties

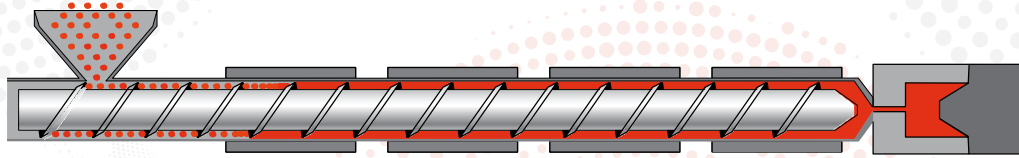
Test conditions

Test method

Unit

Value

Recommended processing temperature



Injection

 1st Zone
 $265 \pm 10 \text{ }^{\circ}\text{C}$

 2nd Zone
 $275 \pm 10 \text{ }^{\circ}\text{C}$

 3rd Zone
 $280 \pm 10 \text{ }^{\circ}\text{C}$

 Head
 $285 \pm 10 \text{ }^{\circ}\text{C}$

 Die
 $280 \pm 10 \text{ }^{\circ}\text{C}$

Storage and Handling

For easy handling and storage, the production is supplied as cylindrical pellets packed into 25 kg bags (40 bags per pallet) or bulk bags (1.000 kg). The storage location should be dry and dust free. The ambient temperature should not exceed 50°C otherwise it can lead to a degradation of the product, which can result in colour changes, odour and effect production performance.

Pre drying temperature $80\text{-}110^{\circ}\text{C}$ for 3-4 hours.

Important

Information contained in this Technical Data Sheet is given in good faith and to the best of the knowledge of ALLCOMP LLC. Before using the product mentioned herein, customers and other users should take all care in determining the suitability of this product for its intended purposes and particularly with regards to conformity with current regulations. It is the customer's responsibility to inspect and test our products in order to satisfy themselves as to the suitability of the product for their and their customer's particular purposes. ALLCOMP LLC does not accept any liability whatsoever arising from the use of this information, or, the use, application or processing of any product described herein.



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Allamid 40GF

40% Glass fiber reinforced Polyamid compound

TECHNICAL DATA SHEET

Product description

40% Glass Fiber reinforced Polyamid compound for injection moulding application.

Application

Automotive industry
Plastic Furniture
White goods

Properties	Test conditions	Test method	Unit	Value
Physical properties				
Density		ISO 1183	g/cm ³	min 1,40 - max 1,46
Ash content		ISO 3451	%	min 39 - max 41
Moisture Content		ISO 787/2	%	max 0,2
Mold Shrinkage	Parallel, 23°C Perpendicular, 23°C	Allcomp Method	%	0,2 1
* Hardness and density can be vary on customer requirements				
Mechanical properties				
Tensile Modulus	23°C	ISO 527	MPa	min 11000- max 12500
Tensile Stress at Break	23°C	ISO 527	MPa	min 175 - max 195
Elongation at Break	23°C	ISO 527	%	min 2,9 - max 3,2
Notched Impact Strength Izod	23°C 23°C	ISO 180/1A	kJ/m ²	min 10 - max 14
Thermal properties				
Heat Deflection Temperature	0,45 MPa	ISO 75-2	°C	min 220 - max 235



Properties

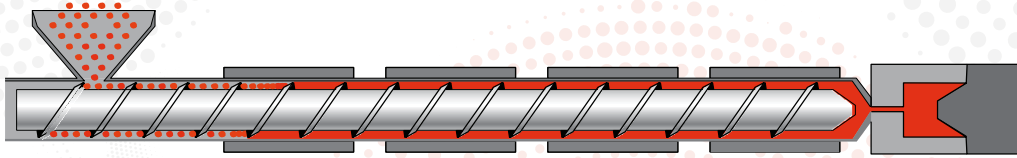
Test conditions

Test method

Unit

Value

Recommended processing temperature



Injection

 1st Zone
 $265 \pm 10 \text{ }^\circ\text{C}$

 2nd Zone
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 3rd Zone
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