

Rotec® ABS 1001 GF 17

Acrylonitrile Butadiene Styrene

ROMIRA GmbH

Message:

Rotec® ABS 1001 GF 17 is an acrylonitrile butadiene styrene (ABS) material, and the filler is 17% glass fiber reinforced material. This product is available in Europe and is processed by extrusion or injection molding. Rotec® The main characteristics of ABS 1001 GF 17 are: flame retardant/rated flame.

General Information			
UL YellowCard	E148878-101297318		
Filler / Reinforcement	Glass fiber reinforced material, 17% filler by weight		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		

Physical	Nominal Value	Unit	Test Method
Density	1.15	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	10	g/10 min	ISO 1133
Molding Shrinkage	0.20 - 0.40	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.30	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	5650	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	85.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	5.0	%	ISO 527-2/5
Flexural Modulus ¹ (23°C)	5250	MPa	ISO 178
Flexural Stress ² (23°C)	115	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	20	kJ/m ²	ISO 179/1eU

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	105	°C	ISO 306/B50
Thermal Conductivity	0.18	W/m/K	DIN 52612

Flammability	Nominal Value	Test Method
Flame Rating (1.50 mm)	HB	UL 94

Injection	Nominal Value	Unit
Drying Temperature	< 80.0	°C
Drying Time	2.0 - 4.0	hr
Suggested Max Moisture	0.050	%
Suggested Max Regrind	5	%
Rear Temperature	210 - 250	°C
Middle Temperature	210 - 250	°C

Front Temperature	210 - 250	°C
Processing (Melt) Temp	< 260	°C
Mold Temperature	40.0 - 80.0	°C
Injection Rate	Fast	

Injection instructions

Screw rotation speed: moderate to high Back pressure: low to moderate Injection pressure: tool depending

Extrusion	Nominal Value	Unit
Drying Temperature	< 80.0	°C
Drying Time	2.0 - 4.0	hr
Suggested Max Moisture	< 0.050	%
Cylinder Zone 1 Temp.	190 - 210	°C
Cylinder Zone 2 Temp.	190 - 210	°C
Cylinder Zone 3 Temp.	190 - 210	°C
Cylinder Zone 4 Temp.	190 - 210	°C
Cylinder Zone 5 Temp.	190 - 210	°C
Melt Temperature	< 245	°C

NOTE

1. 2.0 mm/min
2. 2.0 mm/min

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