

Rotec® ABS 3001

Acrylonitrile Butadiene Styrene

ROMIRA GmbH

Message:

Rotec® ABS 3001 is an acrylonitrile butadiene styrene (ABS) material. This product is available in Europe and is processed by extrusion or injection molding.

Rotec® The main features of ABS 3001 are:

flame retardant/rated flame

Impact resistance

General Information	
UL YellowCard	E148878-223641
Features	Impact resistance, high
UL File Number	E148878
Forms	Particle
Processing Method	Extrusion Injection molding

Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	20	g/10 min	ISO 1133
Molding Shrinkage	0.40 - 0.70	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.30	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2400	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	47.0	MPa	ISO 527-2/50
Tensile Strain (Break, 23°C)	18	%	ISO 527-2/50
Flexural Modulus ¹ (23°C)	2400	MPa	ISO 178
Flexural Stress ² (23°C)	75.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	16	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	99.0	°C	ISO 306/B50
CLTE - Flow (23 to 55°C)	9.5E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.18	W/m/K	ISO 8302

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

Additional Information	
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The value listed as Thermal Conductivity ISO 8302, was tested in accordance with DIN 52612.

Injection	Nominal Value	Unit
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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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Recommended distributors for this material

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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