

Rotec® ABS TS 15/02

Acrylonitrile Butadiene Styrene

ROMIRA GmbH

Message:

Rotec® ABS TS 15/02 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 TS 15/02 are:

flame retardant/rated flame

Impact resistance

Heat resistance

General Information			
Features	Impact resistance, high Heat resistance, high		
Forms	Particle		
Processing Method	Extrusion Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	12	g/10 min	ISO 1133
Molding Shrinkage	0.50 - 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)	2700	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	50.0	MPa	ISO 527-2/50
Tensile Strain (Break, 23°C)	20	%	ISO 527-2/50
Flexural Modulus ¹ (23°C)	2500	MPa	ISO 178
Flexural Stress ² (23°C)	80.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	18	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	105	°C	ISO 306/B50
CLTE - Flow (23 to 55°C)	8.5E-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			
The value listed as Thermal Conductivity ISO 8302, was tested in accordance with DIN 52612.			

Injection	Nominal Value	Unit
Drying Temperature	< 85.0	°C
Drying Time	2.0 - 4.0	hr
Suggested Max Moisture	0.050	%
Suggested Max Regrind	5	%
Rear Temperature	230 - 250	°C
Middle Temperature	230 - 250	°C
Front Temperature	230 - 250	°C
Processing (Melt) Temp	< 260	°C
Mold Temperature	60.0 - 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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