

Ultramid® TG3S

Polyamide 6
BASF Corporation

Product Description

Ultramid TG3S is a 15% glass reinforced, heat stabilized, impact modified PA6 injection molding compound developed for applications requiring improved toughness in combination with a balance of strength, stiffness, excellent moldability and surface aesthetics.

It is generally recommended for application such as window hardware, wheel chairs wheels, bicycle wheels, power tool housings, hose clamps, clips and fasteners.

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber Reinforcement, 15% Filler by Weight
Additive	• Heat Stabilizer • Impact Modifier
Features	• Good Moldability • Good Stiffness • Good Strength • Good Toughness • Heat Stabilized • Impact Modified • Pleasing Surface Appearance
Uses	• Closures • Electrical Housing • Fasteners • Power/Other Tools • Wheels
RoHS Compliance	• RoHS Compliant
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value	Unit	Test Method
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Density	1.21	g/cm ³	ISO 1183
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Mechanical	Nominal Value	Unit	Test Method
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Tensile Stress (Break, 23°C)	90.0	MPa	ISO 527-2
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Tensile Strain (Break, 23°C)	3.5	%	ISO 527-2
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Flexural Modulus (23°C)	4390	MPa	ISO 178
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Impact	Nominal Value	Unit	Test Method
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Charpy Notched Impact Strength (23°C)	13	kJ/m ²	ISO 179
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Notched Izod Impact Strength			ISO 180
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-40°C	5.40	kJ/m ²	
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23°C	17.0	kJ/m ²	
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Thermal	Nominal Value	Unit	Test Method
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Heat Deflection Temperature			ISO 75-2/A
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1.8 MPa, Unannealed	180	°C	
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Melting Temperature (DSC)	220	°C	ISO 3146
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Flammability	Nominal Value	Unit	Test Method
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Flame Rating - UL (1.50 mm)	HB		UL 94
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UL 746	Nominal Value	Unit	Test Method
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RTI Str (1.50 mm)	65.0	°C	UL 746
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RTI Imp (1.50 mm)	65.0	°C	UL 746
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RTI Elec (1.50 mm)	65.0	°C	UL 746
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Injection	Nominal Value	Unit
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Drying Temperature	80.0	°C
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Drying Time	2.0 to 4.0	hr
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Suggested Max Moisture	0.080	%
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Rear Temperature	245 to 275	°C
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Middle Temperature	260 to 285	°C
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Front Temperature	270 to 295	°C
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Nozzle Temperature	270 to 295	°C
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Processing (Melt) Temp	270 to 295	°C
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Mold Temperature	80.0 to 95.0	°C
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Injection Pressure	3.50 to 12.5	MPa
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Injection Rate	Fast	
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Notes

¹ Typical properties: these are not to be construed as specifications.

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 www.kedisujiao.com

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Thursday, December 17, 2009

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