Ultramid® TG3S

Polyamide 6

BASF Corporation

Message:

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.

Applications

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

General Information					
UL YellowCard	E36632-231204				
Filler / Reinforcement	Glass Fiber,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	Fasteners				
	Housings				
	Power/Other Tools				
	Wheels				
Agency Ratings	EC 1907/2006 (REACH)				
RoHS Compliance	RoHS Compliant				
Forms	Pellets				
Processing Method	Injection Molding				
Physical	Nominal Value	Unit	Test Method		
Density	1.21	g/cm³	ISO 1183		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Stress (Break, 23°C)	90.0	MPa	ISO 527-2		
Tensile Strain (Break, 23°C)	3.5	%	ISO 527-2		
Flexural Modulus (23°C)	4390	MPa	ISO 178		
Impact	Nominal Value	Unit	Test Method		
Charpy Notched Impact Strength (23°C)	13	kJ/m²	ISO 179		

Notched Izod Impact Strength			ISO 180
-40°C	5.4	kJ/m²	
23°C	17	kJ/m²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa			
Unannealed)	180	°C	ISO 75-2/A
Melting Temperature (DSC)	220	°C	ISO 3146
RTI Elec			UL 746
1.00 mm	65.0	°C	
1.50 mm	65.0	°C	
3.00 mm	65.0	°C	
RTI Imp			UL 746
1.00 mm	65.0	°C	
1.50 mm	65.0	°C	
3.00 mm	65.0	°C	
RTI Str			UL 746
1.00 mm	65.0	°C	
1.50 mm	65.0	°C	
3.00 mm	65.0	°C	
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.00 mm	НВ		
1.50 mm	НВ		
3.00 mm	НВ		
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.080	%	
Rear Temperature	245 to 275	°C	
Middle Temperature	260 to 285	°C	
Front Temperature	270 to 295	°C	
Nozzle Temperature	270 to 295	°C	
Processing (Melt) Temp	270 to 295	°C	
J			
Mold Temperature	80.0 to 95.0	°C	
Mold Temperature Injection Pressure	80.0 to 95.0 3.50 to 12.5	°C MPa	

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