

Ultramid® TG7S

Polyamide 6

BASF Corporation

Message:

Ultramid TG7S is a 34% glass reinforced, heat stabilized, impact modified PA6 injection molding grade. It was developed to meet the demanding requirements of the first North American seat cushion pan/frame to be made of an engineering plastic as opposed to metal. TG7S exhibits improved strength, stiffness and notched impact properties over Ultramid 8333G HI.

Applications

Include cushion seat pan/frame and other automotive seating applications, automotive fan, power tools and trimmer components.

General Information			
UL YellowCard	E36632-231205		
Filler / Reinforcement	Glass Fiber, 34% Filler by Weight		
Additive	Heat Stabilizer		
	Impact Modifier		
Features	Good Impact Resistance		
	Good Stiffness		
	Good Strength		
	Heat Stabilized		
	Impact Modified		
Uses	Automotive Applications		
	Lawn and Garden Equipment		
	Power/Other Tools		
	Seats		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.37	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Break, -40°C	251	MPa	
Break, 23°C	170	MPa	
Break, 80°C	97.0	MPa	
Break, 121°C	77.0	MPa	
Tensile Strain (Break, 23°C)	3.3	%	ISO 527-2
Flexural Modulus (23°C)	8400	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	23	kJ/m ²	ISO 179
Notched Izod Impact Strength			ISO 180
-40°C	18	kJ/m ²	
23°C	26	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	203	°C	ISO 75-2/A
Melting Temperature (DSC)	220	°C	ISO 3146
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	
Mold Temperature	80.0 to 95.0	°C	
Injection Pressure	3.50 to 12.5	MPa	
Injection Rate	Fast		

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