

Ultramid® SEG7

Polyamide 6

BASF Corporation

Product Description

Ultramid SEG7 is a 35% glass reinforced, injection molding type 6 nylon requiring high strength, surface aesthetics, and good processability. This product has excellent surface appearance while maintaining a good balance of physical properties, such as high strength, improved toughness, and chemical resistance. It features superior flow properties, and is suited for parts having thinner walls and those requiring long lengths. It shows lower pressure, temperature, and cycle time requirements than conventional grades.

General

Material Status	• Commercial: Active		
Availability	• North America		
Filler / Reinforcement	• Glass Fiber Reinforcement, 35% Filler by Weight		
Features	• Fast Molding Cycle • Good Chemical Resistance • Good Processability	• Good Stiffness • Good Surface Finish • Good Toughness	• High Flow • High Strength
Uses	• Automotive Applications	• Power/Other Tools	
Agency Ratings	• ULC Unspecified Rating		
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.41	g/cm ³	ASTM D792
--	1410	kg/m ³	ISO 1183 ²
Molding Shrinkage - Flow (3.18 mm)	0.30	%	ASTM D955
Water Absorption			
24 hr	1.0	%	ASTM D570
24 hr, 23°C	1.0	%	ISO 62
Saturation	6.3	%	ASTM D570 ISO 62 ²
Equilibrium, 50% RH	1.7	%	ASTM D570
Equilibrium	1.7	%	ISO 62 ²

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Break, 23°C	185	MPa	ASTM D638
Break	185	MPa	ISO 527-2 ²
Tensile Elongation			
Break, 23°C	3.5	%	ASTM D638
Break	3.5	%	ISO 527-2 ²
Flexural Modulus (23°C)	9670	MPa	ASTM D790
Flexural Strength (23°C)	290	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	150	J/m	ASTM D256
Drop Impact Resistance (23°C)	4	J	Internal Method

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785

Thermal	Nominal Value	Unit	Test Method
Melting Temperature	220	°C	ASTM D3418 ISO 3146

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

UL 746	Nominal Value	Unit	Test Method
RTI Str (1.50 mm)	120	°C	UL 746
RTI Imp (1.50 mm)	115	°C	UL 746
RTI Elec (1.50 mm)	140	°C	UL 746

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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Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.10	%
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	

Notes

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

² Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

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