Ultramid® 8267G HS BK-106

Polyamide 6

BASF Corporation

Message:

Ultramid 8267G HS BK-106 is a heat stabilized, weather resistant, 40% mineral and glass fiber reinforced PA6 injection molding compound with improved UV resistance and sink mark resistance. The combination of mineral and glass fibers result in a high performance, low warp and cost effective engineering thermoplastic. It exhibits high strength, good UV resistance, rigidity and good heat distortion temperatures. It has a relatively high resistance to creep under load. The heat stabilizer system extends its retention of properties at elevated temperatures. It has good chemical resistance to greases, oils and hydrocarbons.
Applications
Ultramid 8267G HS BK-106 is generally recommended for applications such as rotors, wheels, rims, timing belt covers, automotive cooling fans, shrouds and all external parts exposed to the environment.

General Information	
Filler / Reinforcement	Glass\Mineral,40% Filler by Weight
Additive	Heat Stabilizer
Features	Good Chemical Resistance Good Creep Resistance Good UV Resistance Good Weather Resistance Grease Resistant Heat Stabilized High Rigidity High Strength Hydrocarbon Resistant Low Warpage Oil Resistant
Uses	Automotive Applications Automotive Exterior Parts Wheels
Agency Ratings	EC 1907/2006 (REACH)
RoHS Compliance	RoHS Compliant
Appearance	Black
Forms	Pellets
Processing Method	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.48	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage - Flow (3.18 mm)	0.40	%	
Water Absorption			
24 hr	0.90	%	ASTM D570

23°C, 24 hr	0.90	%	ISO 62
Saturation	5.7	%	ASTM D570
Saturation, 23°C	5.7	%	ISO 62
Equilibrium, 50% RH	1.6	%	ASTM D570
Equilibrium, 23°C, 50% RH	1.6	%	ISO 62
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	121		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			ISO 527-2
-40°C	10800	MPa	
23°C	9200	MPa	
80°C	3090	MPa	
121°C	2620	MPa	
Tensile Strength			
Break, -40°C	178	MPa	ASTM D638, ISO 527-2
Break, 23°C	125	MPa	ASTM D638
Break, 80°C	59.0	MPa	ASTM D638, ISO 527-2
Break, 121°C	51.0	MPa	ASTM D638, ISO 527-2
Break, 23°C	115	MPa	ISO 527-2
Tensile Elongation			
Break, -40°C	3.0	%	ASTM D638
Break, 23°C	2.0	%	ASTM D638, ISO 527-2
Break, 80°C	13	%	ASTM D638
Break, 121°C	11	%	ASTM D638
Flexural Modulus			
23°C	7580	MPa	ASTM D790
23°C	7200	MPa	ISO 178
Flexural Strength			
23°C	200	MPa	ASTM D790
23°C	178	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	5.5	kJ/m^2	ISO 179
Charpy Unnotched Impact Strength (23°C)	46	kJ/m^2	ISO 179
Notched Izod Impact			
23°C	55	J/m	ASTM D256
-40°C	4.0	kJ/m^2	ISO 180
23°C	6.0	kJ/m^2	ISO 180
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Unannealed	215	°C	ISO 75-2/B
1.8 MPa, Unannealed	202	°C	ASTM D648
1.8 MPa, Unannealed	200	°C	ISO 75-2/A

Peak Melting Temperature	220	°C	ASTM D3418, ISO 3146
CLTE - Flow	3.1E-5	cm/cm/°C	ASTM E831

Injection	Nominal Value	Unit
Drying Temperature	83.0	°C
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.15	%
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	

Recommended distributors for this material

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