

Ultramid® SEGM35 H1 BK-126

Polyamide 6

BASF Corporation

Message:

Ultramid SEGM35 H1 BK-126 is a 40% glass/mineral reinforced injection molding grade. It offers enhanced surface appearance, it also exhibits similar UV weathering characteristics compared to 8267G HS BK-106. In parts containing cross sections, significant pressure drops are encountered during filling.

Applications

Ultramid SEGM35 H1 BK-126 is generally recommended for applications such as mirror housings, rear liftgate handles and luggage rack components.

General Information				
Filler / Reinforcement		Glass\Mineral,40% Filler by Weight		
Features		Pleasing Surface Appearance		
Uses	Automotive Applications			
	Automotive Exterior Parts			
	Handles			
	Housings			
	Luggage			
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS Compliant		
Appearance		Black		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.48	--	g/cm ³	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	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	121	--		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus				ISO 527-2
-40°C	9210	--	MPa	
23°C	8290	3900	MPa	

80°C	3310	3050	MPa	
121°C	2760	2320	MPa	
Tensile Strength				
Break, -40°C	175	153	MPa	ASTM D638, ISO 527-2
Break, 23°C	119	--	MPa	ASTM D638
Break, 80°C	58.0	46.0	MPa	ASTM D638, ISO 527-2
Break, 121°C	49.0	38.0	MPa	ASTM D638, ISO 527-2
Break, 23°C	119	67.0	MPa	ISO 527-2
Tensile Elongation				
Break, -40°C	2.9	2.6	%	ASTM D638
Break, 23°C	2.6	--	%	ASTM D638
Break, 80°C	6.6	5.9	%	ASTM D638
Break, 121°C	7.6	7.3	%	ASTM D638
Break, 23°C	2.6	5.6	%	ISO 527-2
Flexural Modulus				
23°C	7600	--	MPa	ASTM D790
23°C	7000	--	MPa	ISO 178
Flexural Strength				
23°C	200	--	MPa	ASTM D790
23°C	186	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0	--	kJ/m ²	ISO 179
Notched Izod Impact				
23°C	53	--	J/m	ASTM D256
-40°C	4.3	--	kJ/m ²	ISO 180
23°C	5.8	--	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	215	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	190	--	°C	ASTM D648, ISO 75-2/A
Peak Melting Temperature	220	--	°C	ASTM D3418, ISO 3146
Injection	Dry	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			

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