

BASF Ultramid® SEGM35 H1 BK-126 15/25% Glass/Mineral Filled PA6 (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Glass/Mineral Reinforced

Material Notes:

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.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-SEGM35-H1-BK-126-1525-GlassMineral-Filled-PA6-Dry.php

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in ³	ISO 1183
Water Absorption	0.90 %	0.90 %	24 hour; ISO Test
	5.7 %	5.7 %	ISO 62
Moisture Absorption at Equilibrium	1.6 %	1.6 %	23°C/50% R.H.; ISO 62
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	ASTM Data; MD

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM Test
Tensile Strength at Break	119 MPa	17300 psi	0.2 in/min; ASTM Test
	49.0 MPa	7110 psi	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	49.0 MPa	7110 psi	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
	58.0 MPa	8410 psi	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
	58.0 MPa	8410 psi	ASTM Test
	@Temperature 80.0 °C	@Temperature 176 °F	
	175 MPa	25400 psi	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	175 MPa	25400 psi	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Tensile Strength, Ultimate	119 MPa	17300 psi	5mm/min; ISO 527

Elongation at Break Mechanical Properties	2.6 % Metric	2.6 % English	0.2 in/min; ASTM Test Comments
	2.6 %	2.6 %	5mm/min; ISO 527
	2.9 %	2.9 %	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	2.9 %	2.9 %	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	6.6 %	6.6 %	ASTM Test
	@Temperature 80.0 °C	@Temperature 176 °F	
	6.6 %	6.6 %	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
	7.6 %	7.6 %	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	7.6 %	7.6 %	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
Tensile Modulus	8.29 GPa	1200 ksi	1mm/min; ISO 527
	2.76 GPa	400 ksi	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
	3.31 GPa	480 ksi	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
	9.21 GPa	1340 ksi	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Strength	186 MPa	27000 psi	ISO Data
	200 MPa	29000 psi	ASTM Test
Flexural Modulus	7.00 GPa	1020 ksi	ISO Data
	7.60 GPa	1100 ksi	ASTM Test
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM Test
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Notched (ISO)	5.80 kJ/m²	2.76 ft-lb/in²	ISO Test
	4.30 kJ/m²	2.05 ft-lb/in²	ISO Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Mechanical Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	10 K/min
	220 °C	428 °F	ASTM Test
Deflection Temperature at 0.46 MPa (66 psi)	215 °C	419 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	190 °C	374 °F	ASTM Test
	190 °C	374 °F	ISO 75

Descriptive Properties	Value	Comments
Color	BK-126	
Commercial Status	Active America	
Impact Modified	No	
Primary Processing Technique	Injection Molding	
Processing	Injection Molding	

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