

Ultramid® SEG8 BK-126

Polyamide 6



Product Description

Ultramid SEG8 BK-126 is a 40% glass reinforced, pigmented black, 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.

Applications

Applications include furniture, but can be used wherever strength and appearance are critical requirements, for example, automotive applications (door handles and mirrors).

PHYSICAL	ISO Test Method	Property Value	
Density, g/cm	1183	1.45	
MECHANICAL	ISO Test Method	Dry	Conditioned
Tensile stress at break, MPa	527		
23C		160	-
Tensile strain at break, %	527		
23C		2.1	-
Flexural Modulus, MPa	178		
23C		10,740	-
IMPACT	ISO Test Method	Dry	Conditioned
Izod Notched Impact, kJ/m ²	180		
23C		12	-
THERMAL	ISO Test Method	Dry	Conditioned
Melting Point, C	3146	220	-
HDT A, C	75	197	-



Pressures

Injection pressure controls the filling of the part and should be applied for 90% of ram travel. Packing pressure affects the final part and can be used effectively in controlling sink marks and shrinkage. It should be applied and maintained until the gate area is completely frozen off.

Back pressure can be utilized to provide uniform melt consistency and reduce trapped air and gas. Minimal back pressure should be utilized to prevent glass breakage.

Fill Rate

Fast fill rates are recommended to ensure uniform melt delivery to the cavity and prevent premature freezing. Surface appearance is directly affected by injection rate.

Note

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