#### **Product Information**

# Ultramid® 8253 HS BK-102 Polyamide 6



## **Product Description**

Ultramid 8253 HS BK-102 is a heat stabilized, pigmented black, impact modified type 6 nylon graft copolymer developed for both injection molding and extrusion applications. It exhibits varying levels of toughness and flexibility combined with excellent thermal and chemical properties.

# **Applications**

Ultramid 8253 HS BK-102 is generally recommended for applications such as plugs, receptacles, flexible connector covers, weed trimmer components, clips fasteners, flanges, key housings as well as many flexible tubing applications.

ISO Test Method	Property Value	
1183	1.09	
62		
	1.5	
	2.3	
		8.1
ISO Test Method	Dry	Conditioned
527		
	2,400	-
527		
	60	-
527		
	4	-
527		
	40	-
178		
	65	-
178		
	1,900	-
ISO Test Method	Dry	Conditioned
180		
	14	-
179		
	17	-
179		
	N	-
ISO Test Method	Dry	Conditioned
3146	220	-
75	55	-
<b>UL Test Method</b>	Property Value	
UL94		НВ
UL746B		
	105	
	1183 62  ISO Test Method 527 527 527 527 178 178 178 178 179 179 179 179 UL Test Method UL94	SO Test Method   Dry





# Ultramid® 8253 HS BK-102



Mechanical w/ Impact, C	105
Electrical, C	105

### **Processing Guidelines**

#### **Material Handling**

Max. Water content: 0.2%

Product is supplied in sealed containers and drying prior to molding is not required. If drying becomes necessary, a dehumidifying or desiccant dryer operating at 80 degC (176 degF) is recommended. Drying time is dependent on moisture level, but 2-4 hours is generally sufficient. Further information concerning safe handling procedures can be obtained from the Material Safety Data Sheet. Alternatively, please contact your BASF representative.

#### **Typical Profile**

Melt Temperature 240-270 degC (464-518 degF) Mold Temperature 60-85 degC (140-185 degF) Injection and Packing Pressure 35-125 bar (500-1500 psi)

#### **Mold Temperatures**

A mold temperature of 60-85 degC (140-185 degF) is recommended, but temperatures of as low as 10 degC (50 degF) can be used where applicable.

#### **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.

#### Fill Rate

Fast fill rates are recommended to ensure uniform melt delivery to the cavity and prevent premature freezing.



