#### **Product Information**

# Ultramid® A3Z HP UV Polyamide 66



#### **Product Description**

Ultramid A3Z HP UV is an impact modified PA66 containing heat and ultraviolet light stabilizers. Designed for maximum toughness at low temperatures, Ultramid A3Z HP UV offers a unique combination of impact performance and excellent processability.

Density, g/cm  1183  1.08  MECHANICAL  ISO Test Method  Dry  Co  Tensile stress at yield, MPa  23C  Nominal strain at break, %  527  23C  50	
Tensile stress at yield, MPa 527 23C 46 Nominal strain at break, % 527	
23C 46 Nominal strain at break, % 527	nditioned
Nominal strain at break, % 527	
,	-
220	
230	-
Flexural Modulus, MPa 178	
23C 1,703	-
IMPACT ISO Test Method Dry Co	nditioned
Izod Notched Impact, kJ/m <sup>2</sup> 180	
23C 83	-
-40C 22	-
THERMAL ISO Test Method Dry Co	nditioned
Melting Point, C 3146 258	-
HDT A, C 75 63	-

### **Processing Guidelines**

#### **Material Handling**

Max. Water content: 0.20%

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 280-304 degC (536-579 degF) Mold Temperature 60-100 degC (140-212 degF) Injection and Packing Pressure 35-125 bar (500-1500 psi)

Back Pressure 0-0.35 MPa (0-50 psi) Screw Speed 40-80 rpm Screw Compression Ratio 3:1 to 4:1

## **Mold Temperatures**

This product can be processed over a wide range of mold temperatures; however, for applications where aesthetics are critical, a mold surface temperature of 60-100 degC (140-212 degF) is recommended.

#### **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.



