

Ultramid® B3S HP Polyamide 6

Ultramid B3S HP is a easy flowing, finely crystalline, injection molding PA6 for fast processing.

Applications

Typical applications include thiwalled technical parts (eg housing, fittings, grips, small parts, anchors and fixing clamps)

PHYSICAL	ISO Test Method	Property Value	
Density, g/cm ³	1183	1.13	
Moisture, %	62		
(50% RH)		3	
(Saturation)		9.5	
RHEOLOGICAL	ISO Test Method	Dry	Conditioned
Melt Volume Rate (275 °C/5 Kg), cc/10min.	1133	175	-
MECHANICAL	ISO Test Method	Dry	Conditioned
Tensile Modulus, MPa	527		
23°C		3,400	1,200
Tensile stress at yield, MPa	527		
23°C		90	45
Tensile strain at yield, %	527		
23°C		4	20
Nominal strain at break, %	527		
23°C		10	>50
Flexural Modulus, MPa	178		
23°C		3,000	-

Ball Indentation, MPa	2039-1	160	-
IMPACT	ISO Test Method	Dry	Conditioned
Izod Notched Impact, kJ/m²	180		
-30°C		3	-
23°C		4	N
Charpy Notched, kJ/m²	179		
-30°C		3	-
23°C		4	50
Charpy Unnotched, kJ/m²	179		
-30°C		200	-
23°C		250	N
THERMAL	ISO Test Method	Dry	Conditioned
Melting Point, °C	3146	220	-
HDT A, °C	75	65	-
HDT B, °C	75	180	-
ELECTRICAL	ISO Test Method	Dry	Conditioned
Comparative Tracking Index	IEC 60112	600	-
Volume Resistivity (Ohm-m)	IEC 60093	1E13	1E10
Dielectric Constant (1 MHz)	IEC 60250	3.3	7
Dissipation Factor (1 MHz), E-4	IEC 60250	300	3,000

Note

Although all statements and information in this publication are believed to be accurate and reliable, they are presented gratis and for guidance only, and risks and liability for results obtained by use of the products or application of the suggestions described are assumed by the user. NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH. Statements or suggestions concerning possible use of the products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should not assume that toxicity data and safety measures are indicated or that other measures may not be required.

BASF Corporation

Engineering Plastics
1609 Biddle Avenue
Wyandotte, MI 48192



General Information

800-BC-RESIN

Technical Assistance

800-527-TECH (734-324-5150)

Web address

<http://www.plasticsportal.com/usa>