

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/m ²	180		
-30°C		3	-
23°C		4	N
Charpy Notched, kJ/m ²	179		
-30°C		3	-
23°C		4	50
Charpy Unnotched, kJ/m ²	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

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