

# Ultramid® 8260 HS BK-102

## Polyamide 6

### Product Description

Ultramid 8260 HS BK-102 is a heat stabilized, pigmented black, 40% mineral reinforced PA6 injection molding resin. It possesses high stiffness, dimensional stability and heat resistance combined with excellent processability including low warp and resistance to sink-mark formation. It maintains its inherent chemical resistance to greases, oils and hydrocarbons.

### Applications

Ultramid 8260 HS BK-102 is generally recommended for applications such as marine hardware, brackets, fittings, bobbins, office furniture, appliance components, and power tool housings.

PHYSICAL	ISO Test Method	Property Value	
Density, g/cm	1183	1.49	
Moisture, %	62		
(24 Hour)		1.1	
(50% RH)		1.6	
(Saturation)		5.7	
MECHANICAL	ISO Test Method	Dry	Conditioned
Tensile Modulus, MPa	527		
-40C		8,310	7,700
23C		6,400	3,800
80C		1,360	1,400
121C		970	1,200
Tensile stress at break, MPa	527		
-40C		135	135
23C		85	60
80C		40	35
121C		30	27
Tensile strain at break, %	527		
23C		10	30
Flexural Strength, MPa	178		
23C		140	50
Flexural Modulus, MPa	178		
23C		5,200	2,100
IMPACT	ISO Test Method	Dry	Conditioned
Izod Notched Impact, kJ/m <sup>2</sup>	180		
23C		6	-
Charpy Notched, kJ/m <sup>2</sup>	179		
23C		3	-
Charpy Unnotched, kJ/m <sup>2</sup>	179		
23C		130	-
THERMAL	ISO Test Method	Dry	Conditioned
Melting Point, C	3146	220	-
HDT A, C	75	90	-



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HDT B, C	75	190	-
<b>ELECTRICAL</b>	<b>ISO Test Method</b>	<b>Dry</b>	<b>Conditioned</b>
Volume Resistivity	IEC 60093	>1E13	-
<b>UL RATINGS</b>	<b>UL Test Method</b>	<b>Property Value</b>	
Flammability Rating, 1.5mm	UL94	HB	
Relative Temperature Index, 1.5mm	UL746B		
Mechanical w/o Impact, C		65	
Mechanical w/ Impact, C		65	
Electrical, C		65	

