Ultramid B3WG6 HPX

“Higher Productivity eXtra”

Automotive Solutions

Performance
Passion
Success

BASF
The Chemical Company

Comparison of Ultramid B3WG6 BGVW to HPX

- **Customer Feedback**
  - **Reduced cycle time > 10%**
  - **Reduced clamp tonnage > 20%**
  - **Met part burst requirements**
  - **Production AIM 2009 SOP**

Ultramid B3WG6 HPX
Ultramid B3WG7 BGVW

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Ultramid B3WG6 HPX

PHYSICAL	ISO Test Method	Property Value	
Density, g/cm³	1183	1.35	
MECHANICAL	**ISO Test Method**	**Dry**	**Conditioned**
Tensile Modulus, MPa	527		
23°C		9,500	-
Tensile stress at break, MPa	527		
23°C		178	-
Tensile strain at break, %	527		
23°C		3.0	-
Flexural Strength, MPa	178		
23°C		251	-
Flexural Modulus, MPa	178		
23°C		8,390	-
IMPACT	**ISO Test Method**	**Dry**	**Conditioned**
Charpy Notched, kJ/m²	179		
23°C		9.9	-
Charpy Unnotched, kJ/m²	179		
23°C		58	-
THERMAL	**ISO Test Method**	**Dry**	**Conditioned**
Melting Point, °C	3146	220	-
HDT A, ° C	75	206	-

Ultramid B3WG6 BGVW

PHYSICAL	ISO Test Method	Property Value	
Density, g/cm³	1183	1.36	
Moisture, %	62		
(24 Hour)		2.1	
(50% RH)		2.1	
(Saturation)		6.6	
MECHANICAL	**ISO Test Method**	**Dry**	**Conditioned**
Tensile Modulus, MPa	527		
23°C		10,500	-
Tensile stress at break, MPa	527		
23°C		177	-
Tensile strain at break, %	527		
23°C		2.5	-
Flexural Modulus, MPa	178		
23°C		8,600	-
IMPACT	**ISO Test Method**	**Dry**	**Conditioned**
Izod Notched Impact, kJ/m²	180		
23°C		10	-
THERMAL	**ISO Test Method**	**Dry**	**Conditioned**
Melting Point, °C	3146	220	-
HDT A, ° C	75	200	-

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Ultramid® B3WG6 Variants
Spiral Flow Comparison

Melt Temperature 520° F/ 271 °C

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