

Ultramid® B3Z

Polyamide 6

BASF Corporation

Message:

Ultramid B3Z is an impact-modified, unreinforced PA6 for injection molding.

Applications

Typical applications include impact-resistant articles, e.g.dowels.

General Information			
Additive	Impact Modifier		
Features	Impact Modified		
	Oil Resistant		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.06	g/cm³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1800	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	47.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	3.8	%	ISO 527-2
Flexural Modulus (23°C)	1800	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	44	kJ/m²	
23°C	86	kJ/m²	
Notched Izod Impact Strength (-40°C)	57	kJ/m²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	52.0	°C	ISO 75-2/A
Melting Temperature (DSC)	220	°C	ISO 3146
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.15	%	
Processing (Melt) Temp	240 to 285	°C	
Mold Temperature	65.0 to 80.0	°C	
Injection Pressure	3.45 to 10.3	MPa	
Injection Rate	Fast		

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