

Ultramid® Structure B3WG8 LFX bk23215
PA6-GF40

BASF

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.3 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.5 / *	%	ISO 294-4, 2577

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	12100 / 8400	MPa	ISO 527
Stress at Break	220 / 140	MPa	ISO 527
Strain at Break	2.5 / 2.8	%	ISO 527
Impact Strength (Charpy), +23°C	80 / 80	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	70 / 70	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	20 / 20	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	20 / 20	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	11600 / 7800	MPa	ISO 178

Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
Melting Temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	215 / *	°C	ISO 75-1/-2

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Density	1450 / -	kg/m³	ISO 1183
Bulk density	700	kg/m³	-

Material Specific Properties	dry / cond	Unit	Test Standard
ISO Data			
Viscosity number	118 / *	cm³/g	ISO 307, 1157, 1628

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Melt temperature	280 - 300	°C	-
Mold temperature	80 - 90	°C	-

Characteristics

Processing

Injection Molding

Special Characteristics

Heat aging stabilized

Delivery form

Pellets, Black

Disclaimer

Liability Exclusion

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any critical component in any medical device that supports or sustains human life.

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