

Ultramid® Structure B3EG12 LFX un
PA6-GF60

BASF

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.2 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.5 / *	%	ISO 294-4, 2577

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	22400 / 15400	MPa	ISO 527
Stress at Break	280 / 195	MPa	ISO 527
Strain at Break	2.07 / 2.5	%	ISO 527
Impact Strength (Charpy), +23°C	93 / 106	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	76 / 88	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	35 / 35	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	38 / 41	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	20500 / 15700	MPa	ISO 178
Flexural strength	449 / 305	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
Temp. of deflection under load (0.45 MPa)	220 / *	°C	ISO 75-1/-2

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Density	1740 / -	kg/m³	ISO 1183

Material Specific Properties	dry / cond	Unit	Test Standard
ISO Data			
Viscosity number	100 / *	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, Natural Color