

Ultramid® B3EG6 SI R01 BK23287

PA6-GF30

BASF

A glass fibre reinforced injection moulding grade with excellent surface quality, especially suitable for the production of visible parts with high stiffness.

Optimum surface quality is generally obtained at very high injection speed.

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	50 / *	cm ³ /10min	ISO 1133
Temperature	275 / *	°C	-
Load	5 / *	kg	-
Molding shrinkage, parallel	0.2 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8 / *	%	ISO 294-4, 2577

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	9800 / 6100	MPa	ISO 527
Stress at Break	185 / 110	MPa	ISO 527
Strain at Break	3.1 / 7	%	ISO 527
Impact Strength (Charpy), +23°C	65 / 85	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy), -30°C	55 / 50	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	10 / 15	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	8.5 / 8	kJ/m ²	ISO 179/1eA

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)	200 / *	°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			
Water Absorption	7 / *	%	Sim. to ISO 62
Humidity absorption	2.3 / *	%	Sim. to ISO 62
Density	1360 / -	kg/m ³	ISO 1183

Material Specific Properties	dry / cond	Unit	Test Standard
ISO Data			
Viscosity number	130 / *	cm ³ /g	ISO 307, 1157, 1628

Test specimen production	Value	Unit	Test Standard
ISO Data			
Injection Molding, melt temperature	280	°C	ISO 294
Injection Molding, mold temperature	90	°C	ISO 294
Injection Molding, injection velocity	200	mm/s	ISO 294

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4 - 8	h	-
Processing humidity	≤0.05	%	-
Melt temperature	270 - 290	°C	-
Mold temperature	80 - 110	°C	-

Characteristics

Processing

Injection Molding

Additives

Lubricants, Release agent

Delivery form

Pellets, Black

Special Characteristics

Heat aging stabilized

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Injection Molding

PREPROCESSING

Pre/Post-processing, max. allowed water content: .05 %

Pre/Post-processing, Pre-drying, Temperature: 80 °C

Pre/Post-processing, Pre-drying, Time: 4 - 8 h

PROCESSING

injection molding, Melt temperature, range: 270 - 290 °C

injection molding, Melt temperature, recommended: 280 °C

injection molding, Mold temperature, range: 80 - 110 °C

injection molding, Mold temperature, recommended: 100 °C

injection molding, Dwell time, thermoplastics: 10 min
