

Ultramid® B3EG8 SI UN
PA6-GF40

BASF

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	55 / *	cm³/10min	ISO 1133
Temperature	275 / *	°C	-
Load	5 / *	kg	-
Molding shrinkage, parallel	0.2 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.7 / *	%	ISO 294-4, 2577

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	13000 / 7400	MPa	ISO 527
Stress at Break	200 / 120	MPa	ISO 527
Strain at Break	3 / 5	%	ISO 527
Impact Strength (Charpy), +23°C	90 / 85	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	75 / 70	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	15 / 22	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	12 / 11	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	12400 / 7550	MPa	ISO 178
Flexural strength	310 / 180	MPa	ISO 178
Notched Impact Strength (Izod), 23°C	16 / 21	kJ/m²	ISO 180/1A
Notched Impact Strength (Izod)	12 / 11	kJ/m²	ISO 180/1A
Temperature	-30	°C	-

Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
Melting Temperature (10°C/min)	218 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	205 / *	°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			
Humidity absorption	1.8 / *	%	Sim. to ISO 62
Density	1460 / -	kg/m³	ISO 1183
Bulk density	700	kg/m³	-

Material Specific Properties	dry / cond	Unit	Test Standard
ISO Data			
Viscosity number	130 / *	cm³/g	ISO 307, 1157, 1628

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4 - 8	h	-
Melt temperature	260 - 280	°C	-
Mold temperature	80 - 110	°C	-

Characteristics

Processing

Injection Molding, Other Extrusion

Delivery form

Pellets, Natural Color