

Ultramid® B3EG8
PA6-GF40

BASF

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	35 / *	cm³/10min	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	13000 / 8300	MPa	ISO 527
Stress at Break	210 / 130	MPa	ISO 527
Strain at Break	3.5 / 5.4	%	ISO 527
Impact Strength (Charpy), +23°C	100 / 100	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	90 / 80	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	17 / 20	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	13 / 11	kJ/m²	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)	215 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	220 / *	°C	ISO 75-1/-2
ASTM Data			
Thermal Conductivity, solid state	0.36	W/(m K)	DIN 52612-1
Specific Heat	1400	J/(kg K)	

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Water Absorption	6 / *	%	Sim. to ISO 62
Humidity absorption	2 / *	%	Sim. to ISO 62
Density	1430 / -	kg/m³	ISO 1183
Bulk density	700	kg/m³	-

Material Specific Properties	dry / cond	Unit	Test Standard
ISO Data			
Viscosity number	145 / *	cm³/g	ISO 307, 1157, 1628

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4	h	-
Melt temperature	270 - 290	°C	-
Mold temperature	80 - 90	°C	-

Processing Recommendation Extrusion	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4	h	-
Melt temperature	270 - 290	°C	-

Characteristics

Processing

Injection Molding, Other Extrusion

Special Characteristics

Heat aging stabilized

Delivery form

Pellets

Applications

Automotive

Disclaimer