

Ultramid® B3WM8 R02
PA6-MX40

BASF

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	41 / *	cm³/10min	ISO 1133
Temperature	275 / *	°C	-
Load	5 / *	kg	-
Molding shrinkage, parallel	1.1 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.9 / *	%	ISO 294-4, 2577

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	5500 / 1760	MPa	ISO 527
Stress at Break	79 / 50	MPa	ISO 527
Strain at Break	9.7 / 50	%	ISO 527
Impact Strength (Charpy), +23°C	170 / no break	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	97 / 124	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	6.1 / 12	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	3.7 / 3.4	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	5680 / 1870	MPa	ISO 178
Flexural strength	138 / 56	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)	88 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	183 / *	°C	ISO 75-1/-2
Coeff. of Linear Therm. Expansion, parallel	69 / *	E-6/K	ISO 11359-1/-2
Coeff. of Linear Therm. Expansion, normal	75 / *	E-6/K	ISO 11359-1/-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	127 / *	cm³/g	ISO 307, 1157, 1628

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Melt temperature	270 - 310	°C	-
Mold temperature	80 - 100	°C	-

Characteristics

Processing

Injection Molding, Other Extrusion

Special Characteristics

Heat aging stabilized

Delivery form

Pellets

Features

Low Warpage, Thermal Stability