

Ultramid® B3WGM35 R01 SW807
PA6-(GF+MX)40

BASF

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	40 / *	cm³/10min	ISO 1133
Temperature	275 / *	°C	-
Load	5 / *	kg	-

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	8300 / 4000	MPa	ISO 527
Stress at Break	125 / 70	MPa	ISO 527
Strain at Break	3 / -	%	ISO 527
Impact Strength (Charpy), +23°C	45 / 80	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	40 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	3.5 / 5	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	3 / -	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	6900 / 3500	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)	190 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	210 / *	°C	ISO 75-1/-2

Electrical Properties	dry / cond	Unit	Test Standard
ISO Data			
Volume Resistivity	1E13 / -	Ohm*m	IEC 62631-3-1

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Water Absorption	6 / *	%	Sim. to ISO 62
Humidity absorption	2 / *	%	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	140 / *	cm³/g	ISO 307, 1157, 1628

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Melt temperature	260 - 290	°C	-
Mold temperature	80 - 120	°C	-

Characteristics

Processing

Injection Molding

Features

Low Warpage

Delivery form

Pellets, Black

Applications

Automotive

Special Characteristics

Heat aging stabilized