

Ultramid® B3WG10 R03 UN
PA6-GF50

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	-
Molding shrinkage, parallel	0.4 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8 / *	%	ISO 294-4, 2577

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	15900 / 10200	MPa	ISO 527
Stress at Break	230 / 160	MPa	ISO 527
Strain at Break	2.9 / 5.1	%	ISO 527
Impact Strength (Charpy), +23°C	105 / -	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	105 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	19 / -	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	17 / -	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	15500 / 8500	MPa	ISO 178
Flexural strength	360 / 260	MPa	ISO 178

Other Properties	Value	Unit	Test Standard
ISO Data			
Bulk density	700	kg/m³	-

Material Specific Properties	dry / cond	Unit	Test Standard
ISO Data			
Viscosity number	104 / *	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	260 - 290	°C	-
Mold temperature	80 - 100	°C	-

Processing Recommendation Extrusion	Value	Unit	Test Standard
Melt temperature	260 - 290	°C	-

Characteristics

Processing

Injection Molding, Other Extrusion

Features

Thermal Stability

Delivery form

Pellets, Natural Color