

Ultramid® S3WG10 Balance
PA610-GF50

BASF

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	15 / *	cm³/10min	ISO 1133
Temperature	275 / *	°C	-
Load	5 / *	kg	-
Molding shrinkage, parallel	0.3 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.9 / *	%	ISO 294-4, 2577

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	15000 / 12700	MPa	ISO 527
Stress at Break	200 / 165	MPa	ISO 527
Strain at Break	3.3 / 4.1	%	ISO 527
Impact Strength (Charpy), +23°C	100 / 100	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	110 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	15.5 / 16	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	13 / -	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	14000 / 12500	MPa	ISO 178

Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
Melting Temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Water Absorption	2.1 / *	%	Sim. to ISO 62
Humidity absorption	0.8 / *	%	Sim. to ISO 62
Density	1520 / -	kg/m³	ISO 1183
Bulk density	700	kg/m³	-

Material Specific Properties	dry / cond	Unit	Test Standard
ISO Data			
Viscosity number	150 / *	cm³/g	ISO 307, 1157, 1628

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Melt temperature	280 - 300	°C	-
Mold temperature	80 - 90	°C	-

Characteristics

Processing

Injection Molding

Delivery form

Pellets

Special Characteristics

Heat aging stabilized