

Ultramid® Exp. B3E2G10 SI BK23353
PA6-GF50

BASF

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	30 / *	cm³/10min	ISO 1133
Temperature	275 / *	°C	-
Load	5 / *	kg	-
Molding shrinkage, parallel	0.2 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.6 / *	%	ISO 294-4, 2577

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	16500 / 10200	MPa	ISO 527
Stress at Break	220 / 150	MPa	ISO 527
Strain at Break	3.5 / 6	%	ISO 527
Impact Strength (Charpy), +23°C	105 / 105	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	80 / 80	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	16 / 23	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	13 / 13	kJ/m²	ISO 179/1eA

Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
Melting Temperature (10°C/min)	216 / *	°C	ISO 11357-1/-3

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Water Absorption	5.1 / *	%	Sim. to ISO 62
Humidity absorption	1.7 / *	%	Sim. to ISO 62
Density	1590 / -	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
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4 - 8	h	-
Melt temperature	280 - 300	°C	-
Mold temperature	80 - 110	°C	-

Processing Recommendation Extrusion	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4 - 8	h	-
Melt temperature	280 - 300	°C	-

Characteristics

Processing

Injection Molding, Other Extrusion

Features

Low Emission

Delivery form

Pellets, Black

Applications

Automotive