Ultramid® B3WM602

PA6-MX30 BASF

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	70 / *	cm³/10min	ISO 1133
Temperature	275 / *	°C	-
Load	5 / *	kg	-

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	6600 / 3000	MPa	ISO 527
Stress at Break	72 / 45	MPa	ISO 527
Strain at Break	3 / 35	%	ISO 527
Tensile Creep Modulus, 1000h	* / 1250	MPa	ISO 899-1
Impact Strength (Charpy), +23°C	36 / 100	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	45 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	5 / 9	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	6 / -	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	6300 / 2500	MPa	ISO 178
Notched Impact Strength (Izod), 23°C	4.5 / 8.5	kJ/m²	ISO 180/1A

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)	140 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	200 / *	°C	ISO 75-1/-2
Coeff. of Linear Therm. Expansion, parallel	52.5 / *	E-6/K	ISO 11359-1/-2
Coeff. of Linear Therm. Expansion, normal	40 / *	E-6/K	ISO 11359-1/-2
Burning Behav. at 1.5 mm Nom. Thickn.	HB / *	class	UL 94
Thickness tested	1.6 / *	mm	-

Electrical Properties	dry / cond	Unit	Test Standard
ISO Data			
Relative permittivity, 1MHz	3.5 / 6.2	-	IEC 62631-2-1
Dissipation Factor, 1MHz	200 / 2000	E-4	IEC 62631-2-1
Volume Resistivity	1E13 / 1E10	Ohm*m	IEC 62631-3-1
Surface Resistivity	* / 1E10	Ohm	IEC 62631-3-2
Comparative tracking index	550 / -	-	IEC 60112

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Water Absorption	6.3 / *	%	Sim. to ISO 62
Humidity absorption	2.6 / *	%	Sim. to ISO 62
Density	1390 / -	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	270 - 290	°C	-
Mold temperature	80 - 90	°C	-

Characteristics

Processing

Injection Molding

Applications

Automotive

Delivery form

Pellets

Disclaimer

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