Ultramid® A3K6

PA66-GB30 BASF

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	1.6 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	1.5 / *	%	ISO 294-4, 2577

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	4500 / 2300	MPa	ISO 527
Stress at Break	80 / 50	MPa	ISO 527
Strain at Break	3 / 20	%	ISO 527
Impact Strength (Charpy), +23°C	25 / no break	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	25 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	4 / 8	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	3 / -	kJ/m²	ISO 179/1eA

Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
Melting Temperature (10°C/min)	260 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	120 / *	°C	ISO 75-1/-2

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

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Water Absorption	6.5 / *	%	Sim. to ISO 62
Humidity absorption	2.1 / *	%	Sim. to ISO 62
Density	1360 / -	kg/m³	ISO 1183
Bulk density	700	kg/m³	-

Material Specific Properties	dry / cond	Unit	Test Standard
ISO Data			
Viscosity number	145 / *	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

Features
Low Warpage

Delivery form
Pellets

Applications
Automotive

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- any bodily implant application for greater than 30 days
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