

DOMAMID 6G30IK1H1UV1

PA6-GF30

DOMO Engineering Plastics

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.5 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	1.0 / *	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	8600 / 5400	MPa	ISO 527
Stress at break	130 / 95	MPa	ISO 527
Strain at break	4.5 / 7.5	%	ISO 527
Flexural modulus, 23°C	7700 / 4700	MPa	ISO 178
Charpy impact strength, +23°C	100 / 120	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	21 / 35	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	13 / -	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	90 / 105	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	20 / 35	kJ/m ²	ISO 180/1A

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	221 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	195 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	210 / *	°C	ISO 75-1/-2
Vicat softening temperature, B	205 / *	°C	ISO 306
Burning behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	mm	-

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
Volume resistivity	1E13 / -	Ohm*m	IEC 62631-3-1
Surface resistivity	* / 1E13	Ohm	IEC 62631-3-2

Other properties	dry / cond	Unit	Test Standard
Density	1320 / -	kg/m ³	ISO 1183

Material specific properties	dry / cond	Unit	Test Standard
ISO Data			
Viscosity number	145 / *	cm ³ /g	ISO 307, 1157, 1628

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	75 - 85	°C	-
Pre-drying - Time	2 - 4	h	-
Melt temperature	240 - 270	°C	-
Mold temperature	90 - 120	°C	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Special Characteristics

High impact or impact modified, U.V. stabilized or stable to weather, Heat stabilized or stable to heat