

**DOMAMID 6G50H1UV1**

PA6-GF50

DOMO Engineering Plastics

<b>Processing/Physical Characteristics</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Molding shrinkage, parallel	0.2 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.5 / *	%	ISO 294-4, 2577
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Tensile Modulus	16000 / 10500	MPa	ISO 527
Stress at break	225 / 145	MPa	ISO 527
Strain at break	2.5 / 4	%	ISO 527
Flexural modulus, 23°C	14500 / 9000	MPa	ISO 178
Charpy impact strength, +23°C	100 / 110	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	20 / 25	kJ/m <sup>2</sup>	ISO 179/1eA
Izod impact strength, +23°C	95 / 100	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C	19 / 25	kJ/m <sup>2</sup>	ISO 180/1A
<b>Thermal properties</b>			
<b>ISO Data</b>			
Melting temperature, 10°C/min	221 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	210 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	220 / *	°C	ISO 75-1/-2
Vicat softening temperature, B	215 / *	°C	ISO 306
Burning behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	mm	-
<b>Electrical properties</b>			
<b>ISO Data</b>			
Volume resistivity	1E13 / -	Ohm*m	IEC 62631-3-1
Surface resistivity	* / 1E13	Ohm	IEC 62631-3-2
<b>Other properties</b>			
Density	1560 / -	kg/m <sup>3</sup>	ISO 1183
<b>Material specific properties</b>			
<b>ISO Data</b>			
Viscosity number	145 / *	cm <sup>3</sup> /g	ISO 307, 1157, 1628
<b>Processing Recommendation Injection Molding</b>			
Pre-drying - Temperature	75 - 85	°C	-
Pre-drying - Time	2 - 4	h	-
Melt temperature	260 - 280	°C	-
Mold temperature	90 - 100	°C	-

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific

**Special Characteristics**

U.V. stabilized or stable to weather, Heat stabilized or stable to heat