

**DOMAMID 6I1**

PA6

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	1.2 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	1.5 / *	%	ISO 294-4, 2577
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Tensile Modulus	2700 / 1000	MPa	ISO 527
Yield stress	70 / 40	MPa	ISO 527
Strain at break	>50 / >50	%	ISO 527
Flexural modulus, 23°C	2300 / 900	MPa	ISO 178
Charpy impact strength, +23°C	N / N	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	N / N	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	18 / 80	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	10 / 9	kJ/m <sup>2</sup>	ISO 179/1eA
Izod impact strength, +23°C	N / N	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C	15 / 75	kJ/m <sup>2</sup>	ISO 180/1A
Rockwell hardness	R 110	-	ISO 2039-2
<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	60 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	155 / *	°C	ISO 75-1/-2
Vicat softening temperature, B	190 / *	°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	1110 / -	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	240 - 260	°C	-
Mold temperature	60 - 90	°C	-

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific

**Special Characteristics**

High impact or impact modified