

# ECONAMID® FL 6G30UV1

Polyamide 6

DOMO Engineering Plastics

PROSPECTOR®

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## Technical Data

Product Description		
(ECONAMID 6G30FLUV) Polyamide 6, 30% glass fiber reinforced, UV stabilized, for injection moulding		
General		
Material Status	• Commercial: Active	
Literature <sup>1</sup>	• Brochure - DOMO ENGINEERING PLASTICS: In Chemicals We Trust. (English) • Brochure - PRODUCTS LIST: DOMAMID & ECONAMID (English) • Technical Datasheet (English)	
Search for UL Yellow Card	• <b>DOMO Engineering Plastics</b>	
Availability	• Asia Pacific • Europe • North America	
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight	
Additive	• UV Stabilizer	
Features	• UV Stabilized	
Processing Method	• Injection Molding	
Resin ID (ISO 1043)	• PA6-GF30	
Physical	Nominal Value Unit	Test Method
Density	1.36 g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage <sup>3</sup>		ISO 2577
Across Flow : 23°C, 72 hr	0.70 to 0.90 %	
Flow : 23°C, 72 hr	0.20 to 0.40 %	
Viscosity Number		ISO 307
96% H2SO4 (Sulphuric Acid)	135 cm <sup>3</sup> /g	
Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	9000 MPa	ISO 527-2/1
Tensile Stress (Break)	140 MPa	ISO 527-2/5
Tensile Strain (Break)	3.0 %	ISO 527-2/5
Flexural Modulus <sup>4</sup>	7500 MPa	ISO 178
Flexural Stress <sup>4</sup>	200 MPa	ISO 178
Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0 kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	40 kJ/m <sup>2</sup>	ISO 179/1eU
Notched Izod Impact Strength (23°C)	5.5 kJ/m <sup>2</sup>	ISO 180/1A
Unnotched Izod Impact Strength (23°C)	35 kJ/m <sup>2</sup>	ISO 180/1U
Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (R-Scale)	122	ISO 2039-2
Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature		
0.45 MPa, Unannealed	215 °C	ISO 75-2/B
1.8 MPa, Unannealed	200 °C	ISO 75-2/A
Vicat Softening Temperature	210 °C	ISO 306/B50
Melting Temperature	221 °C	ISO 11357-3
Electrical	Nominal Value Unit	Test Method
Surface Resistivity	1.0E+13 ohms	IEC 60093
Volume Resistivity	1.0E+15 ohms·cm	IEC 60093
Flammability	Nominal Value Unit	Test Method
Burning Rate	< 100 mm/min	FMVSS 302
Flame Rating (0.8 mm)	HB	UL 94
Additional Information	Nominal Value Unit	Test Method
ISO Shortname	PA6,ML,14-090,GF30	ISO 1874



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Injection	Nominal Value Unit
Drying Temperature	75 to 85 °C
Drying Time	2.0 to 4.0 hr
Processing (Melt) Temp	240 to 270 °C
Mold Temperature	90 to 100 °C

## Notes

<sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

<sup>2</sup> Typical properties: these are not to be construed as specifications.

<sup>3</sup> 50% RH

<sup>4</sup> 2.0 mm/min

