

Technical Data

Product Description				
(DOMAMID 6G30UV)				
Polyamide 6, 30% glass fiber reinforced, UV stabilized, for injection moulding				
General				
Material Status	• Commercial: Active			
Literature ¹	<ul style="list-style-type: none"> • Brochure - DOMO ENGINEERING PLASTICS: In Chemicals We Trust. (English) • Brochure - PRODUCTS LIST: DOMAMID & ECONAMID (English) • Technical Datasheet (English) 			
Search for UL Yellow Card	<ul style="list-style-type: none"> • DOMO Engineering Plastics • DOMAMID® 			
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	Dry	Conditioned	Unit	Test Method
Density	1.36	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	45.0	--	cm ³ /10min	ISO 1133
Molding Shrinkage ³				ISO 2577
Across Flow : 23°C, 72 hr	0.80 to 1.0	--	%	
Flow : 23°C, 72 hr	0.30 to 0.50	--	%	
Viscosity Number				ISO 307
96% H2SO4 (Sulphuric Acid)	145	--	cm ³ /g	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9500	6000	MPa	ISO 527-2/1
Tensile Stress (Break)	180	110	MPa	ISO 527-2/5
Tensile Strain (Break)	3.5	6.0	%	ISO 527-2/5
Flexural Modulus ⁴	8500	5000	MPa	ISO 178
Flexural Stress ⁴	270	160	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	15	25	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	90	110	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength (23°C)	15	25	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength (23°C)	80	90	kJ/m ²	ISO 180/1U
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	122	--		ISO 2039-2
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	220	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	200	--	°C	ISO 75-2/A
Vicat Softening Temperature	215	--	°C	ISO 306/B50
Melting Temperature	221	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	--	ohms	IEC 60093
Volume Resistivity	1.0E+15	--	ohms-cm	IEC 60093
Comparative Tracking Index (Solution A)	500	--	V	IEC 60112



Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate	< 100	--	mm/min	FMVSS 302
Flame Rating (0.8 mm)	HB	--		UL 94
Glow Wire Flammability Index (1.0 to 3.0 mm)	650	--	°C	IEC 60695-2-12
Additional Information	Dry	Conditioned	Unit	Test Method
ISO Shortname	PA6,ML,14-090,GF30	--		ISO 1874

Injection	Dry 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

- ¹ 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.
- ² Typical properties: these are not to be construed as specifications.
- ³ 50% RH
- ⁴ 2.0 mm/min

