

Technical Data

Product Description		
(DOMAMID 66G40)		
Polyamide 66, 40% glass fiber reinforced, 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, 40% Filler by Weight	
Processing Method	• Injection Molding	
Resin ID (ISO 1043)	• PA66-GF40	
Physical	Nominal Value Unit	Test Method
Density	1.46 g/cm ³	ISO 1183
Molding Shrinkage ³		ISO 2577
Across Flow : 23°C, 72 hr	0.50 to 0.70 %	
Flow : 23°C, 72 hr	0.20 to 0.40 %	
Viscosity Number		ISO 307
96% H2SO4 (Sulphuric Acid)	145 cm ³ /g	
Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	13200 MPa	ISO 527-2/1
Tensile Stress (Break)	195 MPa	ISO 527-2/5
Tensile Strain (Break)	2.8 %	ISO 527-2/5
Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength (23°C)	14 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	80 kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength (23°C)	13 kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength (23°C)	75 kJ/m ²	ISO 180/1U
Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature		
0.45 MPa, Unannealed	255 °C	ISO 75-2/B
1.8 MPa, Unannealed	250 °C	ISO 75-2/A
Vicat Softening Temperature	255 °C	ISO 306/B50
Melting Temperature	262 °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
Comparative Tracking Index (Solution A)	500 V	IEC 60112
Flammability	Nominal Value 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	Nominal Value Unit	Test Method
ISO Shortname	PA 66,M,14-140-GF40	ISO 1874



Injection	Nominal Value Unit
Drying Temperature	75 to 85 °C
Drying Time	2.0 to 4.0 hr
Processing (Melt) Temp	270 to 290 °C
Mold Temperature	90 to 110 °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

