

DOMAMID® 6G25V0EF

Polyamide 6

DOMO Engineering Plastics SPA

Message:

Polyamide 6, 25% glass fibre reinforced, flame retardant, halogen and red phosphorous free, for injection moulding.

General Information			
UL YellowCard	E170540-532327		
Filler / Reinforcement	Glass fiber reinforced material, 25% filler by weight		
Additive	Flame retardancy		
Features	Phosphorus content, low (to none)		
	Halogen-free		
	Flame retardancy		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.34	g/cm ³	ISO 1183
Molding Shrinkage - Flow ¹ (23°C, 72 hr)	0.20 - 0.40	%	ISO 2577
Water Absorption (Saturation, 23°C)	5.0	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8500	MPa	ISO 527-2/1
Tensile Stress (Break)	125	MPa	ISO 527-2/5
Tensile Strain (Break)	2.5	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	8.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	210	°C	ISO 75-2/B
1.8 MPa, not annealed	190	°C	ISO 75-2/A
Vicat Softening Temperature	210	°C	ISO 306/B50
Melting Temperature	218 - 222	°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)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Burning Rate	< 100	mm/min	FMVSS 302
Flame Rating (0.800 mm)	V-0		UL 94

Glow Wire Flammability Index (1.00 to 3.00 mm)		960	°C	IEC 60695-2-12
Injection	Nominal Value	Unit		
Drying Temperature	75.0 - 85.0	°C		
Drying Time	4.0 - 6.0	hr		
Processing (Melt) Temp	240 - 270	°C		
Mold Temperature	90.0	°C		
NOTE				
1.	50% RH			

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