

DOMAMID® 6V0M1

Polyamide 6

DOMO Engineering Plastics SPA

Message:

Polyamide 6, self extinguishing, halogen and phosphorous free, for injection moulding.

General Information			
Features	Halogen Free		
	Low (to None) Phosphorus Content		
	Self Extinguishing		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.17	g/cm³	ISO 1183
Water Absorption (Saturation, 23°C)	9.0	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3400	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield	80.0	MPa	
Break	65.0	MPa	
Tensile Strain			ISO 527-2/50
Yield	8.0	%	
Break	15	%	
Flexural Modulus ¹	3200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	80	kJ/m²	ISO 179/1eU
Notched Izod Impact Strength (23°C)	3.0	kJ/m²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	180	°C	ISO 75-2/B
1.8 MPa, Unannealed	70.0	°C	ISO 75-2/A
Vicat Softening Temperature	205	°C	ISO 306/B50
Melting Temperature	218 to 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
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 to 85.0		°C	
Drying Time	4.0 to 6.0		hr	
Processing (Melt) Temp	230 to 260		°C	
Mold Temperature	80.0		°C	
NOTE				
1.	2.0 mm/min			

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