

DOMAMID® 6V0M

Polyamide 6

DOMO Engineering Plastics SPA

Message:

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

General Information			
UL YellowCard	E170540-225453		
Features	Halogen Free		
	Low (to None) Phosphorus Content		
	Self Extinguishing		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.17	g/cm ³	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/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	80	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength (23°C)	3.0	kJ/m ²	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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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

