

DOMAMID® 6S

Polyamide 6

DOMO Engineering Plastics SPA

Message:

Polyamide 6, general purpose, for injection moulding.

General Information			
UL YellowCard	E170540-225449		
Features	General Purpose		
Uses	General Purpose		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm ³	ISO 1183
Molding Shrinkage - Flow ¹ (23°C, 72 hr)	1.0 to 1.4	%	ISO 2577
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3100	MPa	ISO 527-2/1
Tensile Stress (Yield)	80.0	MPa	ISO 527-2/50
Tensile Strain (Break)	50	%	ISO 527-2/50
Flexural Modulus ²	2700	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	5.5	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
Burning Rate	< 100	mm/min	FMVSS 302
Flame Rating (0.800 mm)	V-2		UL 94
Glow Wire Flammability Index (1.00 to 3.00 mm)	750 to 850	°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	60.0 to 100	°C
NOTE		
1.	50% RH	
2.	2.0 mm/min	

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