DOMAMID® 66

Polyamide 66

DOMO Engineering Plastics

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Technical Data

Product Description			
(DOMAMID 66SN) Polyamide 66, for injection moulding			
General			
Material Status	• Commercial: Active		
Literature [1]	• Brochure - DOMO ENGINEERING PLASTICS: In Chemicals We Trust. (English) • Brochure - PRODUCTS LIST: DOMAMID & ECONAMID (English) • Technical Datasheet (English)		
UL Yellow Card [2]	• E170540-225466		
Search for UL Yellow Card	• DOMO Engineering Plastics • DOMAMID®		
Availability	• Asia Pacific	• Europe	• North America
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PA66		

Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm³	ISO 1183
Molding Shrinkage [4]				ISO 2577
Across Flow : 23°C, 72 hr	1.2 to 1.4	--	%	
Flow : 23°C, 72 hr	1.0 to 1.2	--	%	
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	3200	1200	MPa	ISO 527-2/1
Tensile Stress (Yield)	85.0	55.0	MPa	ISO 527-2/50
Tensile Strain (Break)	35	> 50	%	ISO 527-2/50
Flexural Modulus [5]	2800	--	MPa	ISO 178
Flexural Stress [5]	110	--	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	4.5	14	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	No Break		
23°C	No Break	No Break		
Notched Izod Impact Strength (23°C)	4.5	13	kJ/m²	ISO 180/1A
Unnotched Izod Impact Strength (23°C)	No Break	No Break		ISO 180/1U
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	121	--		ISO 2039-2
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
0.45 MPa, Unannealed	215	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	70.0	--	°C	ISO 75-2/A
Vicat Softening Temperature	245	--	°C	ISO 306/B50
Melting Temperature	262	--	°C	ISO 11357-3
Electrical	**Dry**	**Conditioned**	**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	**Dry**	**Conditioned**	**Unit**	**Test Method**
Burning Rate	< 100	--	mm/min	FMVSS 302
Flame Rating (0.8 mm)	V-2	--		UL 94
Glow Wire Flammability Index (1.0 to 3.0 mm)	750	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature				IEC 60695-2-13
1.0 to 3.0 mm	650	--	°C	

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Additional Information	Dry	Conditioned	Unit	Test Method
ISO Shortname	PA66,M,14-030	--		ISO 1874

Injection	Dry	Unit
Drying Temperature	75 to 85	°C
Drying Time	2.0 to 4.0	hr
Processing (Melt) Temp	270 to 290	°C
Mold Temperature	40 to 80	°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] A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

[3] Typical properties: these are not to be construed as specifications.

[4] 50% RH

[5] 2.0 mm/min