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TECHNYL STAR® S 219 V30 NC

DOMO Engineering Plastics - Polyamide 6

Thursday, October 6, 2022

General Information

Product Description

*Previously DOMAMID VHF 6G30H1

Polyamide 6, 30% glass fiber reinforced, heat-aging stabilized, high flowability, improved surface finish, for injection moulding

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Additive	• Heat Stabilizer		
Features	• Good Surface Finish • Heat Aging Resistant	• Heat Stabilized • High Flow	
Uses	• Consumer Applications	• Industrial Applications	
RoHS Compliance	• RoHS Compliant		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PA6-GF30		
ISO Designation (ISO 16396)	• PA6,GF30,M1H,S10-090		

ASTM & ISO Properties [1]

Physical	Dry	Conditioned	Unit	Test Method
Density	1.37	--	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR)				ISO 1133
275°C/5.0 kg	75	--	cm³/10min	
Molding Shrinkage				ISO 294-4
Across Flow	0.80 to 1.0	--	%	
Flow	0.20 to 0.40	--	%	
Viscosity Number				ISO 307
96% H2SO4 (Sulphuric Acid)	110	--	cm³/g	
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	9400	5800	MPa	ISO 527-1
Tensile Stress (Break)	170	100	MPa	ISO 527-2
Tensile Strain (Break)	2.5	5.0	%	ISO 527-2
Flexural Modulus	8500	4900	MPa	ISO 178
Flexural Stress	250	150	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
23°C	12	23	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
23°C	70	95	kJ/m²	
Notched Izod Impact Strength				ISO 180/1A
23°C	11	23	kJ/m²	
Unnotched Izod Impact Strength				ISO 180/1U
23°C	65	80	kJ/m²	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load				ISO 75-2/B
0.45 MPa, Unannealed	215	--	°C	

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Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2/A
1.8 MPa, Unannealed	205	--	°C	
Vicat Softening Temperature	210	--	°C	ISO 306
Melting Temperature [2]	221	--	°C	ISO 11357-3
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Surface Resistivity	1.0E+13	--	ohms	IEC 62631-3-2
Volume Resistivity	1.0E+13	--	ohms·m	IEC 62631-3-1
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Burning Rate (1.00 mm)	< 100	--	mm/min	FMVSS 302
Flame Rating (0.75 mm)	HB	--		UL 94

Processing Information

Injection	Dry	Unit
Drying Temperature	75 to 85	°C
Drying Time	2.0 to 4.0	hr
Dew Point	< -30	°C
Processing (Melt) Temp	240 to 270	°C
Mold Temperature	90 to 100	°C

Notes

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

[2] 10°C/min

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