TECHNYL® PROTECT A 30H1 V25 A BK

DOMO Engineering Plastics - *Polyamide 66*

General Information

Product Description

*Previously DOMAMID FR 66G25V0AH1

Polyamide 66, 25% glass fiber reinforced, heat-aging stabilized, halogenated flame retardant, for injection moulding

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 25% Filler by Weight		
Additive	• Flame Retardant	• Heat Stabilizer	
Features	• Flame Retardant • Halogen Free	• Heat Aging Resistant • Heat Stabilized	
Uses	• Electrical/Electronic Applications		
Agency Ratings	• EC 1907/2006 (REACH)	• UL 94	
RoHS Compliance	• RoHS Compliant		
Processing Method	• Injection Molding		
ISO Designation (ISO 16396)	• PA66,GF25FR(17),MH,S14-090		
Resin ID (ISO 1043)	• PA66-GF25 FR(17)		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.56	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.70 to 0.90	%	
Flow	0.20 to 0.40	%	
Water Absorption (24 hr, 73°F)	0.80 to 0.90	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	2.2 to 2.4	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1.38E+6	psi	ISO 527-1
Tensile Stress (Break)	18900	psi	ISO 527-2
Tensile Strain (Break)	2.2	%	ISO 527-2
Flexural Modulus	1.28E+6	psi	ISO 178
Flexural Stress	29700	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	4.0	ft·lb/in²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	21	ft·lb/in²	ISO 179/1eU
Notched Izod Impact Strength (73°F)	3.8	ft·lb/in²	ISO 180/1A
Unnotched Izod Impact Strength (73°F)	19	ft·lb/in²	ISO 180/1U
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	482	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	464	°F	ISO 75-2/A
Vicat Softening Temperature	464	°F	ISO 306
Melting Temperature [2]	504	°F	ISO 11357-3
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+14	ohms	IEC 62631-3-2
Volume Resistivity	1.0E+16	ohms·m	IEC 62631-3-1
Comparative Tracking Index (CTI)	PLC 2		IEC 60112
Comparative Tracking Index	350	V	IEC 60112

Flammability	Nominal Value	Unit	Test Method
Burning Rate (0.0394 in)	< 3.9	in/min	FMVSS 302
Flame Rating (0.030 in)	V-0		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	167 to 185	°F
Drying Time	2.0 to 4.0	hr
Dew Point	< -22	°F
Suggested Max Moisture	0.10	%
Processing (Melt) Temp	518 to 554	°F
Mold Temperature	176 to 212	°F

Injection Notes

The material is supplied in airtight bags, ready for use. In case that the virgin material has absorbed moisture, it must be dried with a dehumidified air drying equipment, dew point minimum -20°C. Recommended time 2-4h.

Notes

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

[2] 10°C/min