TECHNYL® C 116 M20 V10 BK

DOMO Engineering Plastics - *Polyamide 6*

General Information

Product Description

*Previously DOMAMID 6LVGM3010H2 BK

Polyamide 6, 30% glass fiber and mineral filler, heat-aging stabilized, improved flowability, for injection moulding, black

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber\Mineral, 30% Filler by Weight		
Additive	• Heat Stabilizer		
Features	• Good Flow	• Heat Aging Resistant	• Heat Stabilized
Uses	• Automotive Applications	• Consumer Applications	• Industrial Applications
RoHS Compliance	• RoHS Compliant		
Processing Method	• Injection Molding		
ISO Designation (ISO 16396)	• PA6,(GF+MD)30,M1H,S12-080		
Resin ID (ISO 1043)	• PA6-(GF10+M20)		

Properties [1]

Physical	Dry	Conditioned	Unit	Test Method
Density	1.37	--	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	70	--	cm³/10min	ISO 1133
Molding Shrinkage				ISO 294-4
Across Flow	0.40 to 0.60	--	%	
Flow	0.20 to 0.40	--	%	
Water Absorption (Equilibrium, 73°F, 50% RH)	2.2	--	%	ISO 62
Viscosity Number (96% H2SO4 (Sulphuric Acid))	130	--	cm³/g	ISO 307
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	1.23E+6	653000	psi	ISO 527-1
Tensile Stress (Break)	16700	10200	psi	ISO 527-2
Tensile Strain (Break)	3.0	9.0	%	ISO 527-2
Flexural Modulus	1.16E+6	--	psi	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	2.1	4.3	ft·lb/in²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	19	21	ft·lb/in²	ISO 179/1eU
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	410	--	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	365	--	°F	ISO 75-2/A
Vicat Softening Temperature	392	--	°F	ISO 306
Melting Temperature [2]	430	--	°F	ISO 11357-3
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Surface Resistivity	1.0E+14	--	ohms	IEC 62631-3-2
Volume Resistivity	1.0E+13	--	ohms·m	IEC 62631-3-1
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Burning Rate (0.0394 in)	< 3.9	--	in/min	FMVSS 302

Processing Information

Injection	Dry	Unit
Drying Temperature	167 to 185	°F

Drying Time	2.0 to 4.0 hr
Dew Point	< -22 °F
Processing (Melt) Temp	482 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