

TECHNYL® B 218 MT25 V15 BK 21N

DOMO Engineering Plastics - Polyamide 66/6 Copolymer

General Information

Product Description

TECHNYL B 218 MT25 V15 BK 21N is a polyamide 66/6, reinforced with 25% of mineral filler and 15% of glass fibre, heat stabilized, for injection moulding.

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber\Mineral, 40% Filler by Weight
Additive	• Heat Stabilizer
Features	• Good Surface Finish • Heat Stabilized • Heat Aging Resistant • Low Warpage
Uses	• Automotive Applications • Fittings • Consumer Applications • Industrial Applications
Agency Ratings	• EC 1907/2006 (REACH)
RoHS Compliance	• RoHS Compliant
Processing Method	• Injection Molding
ISO Designation (ISO 16396)	• PA66/6,(MD+GF)40,MHLA,S14-080
Resin ID (ISO 1043)	• PA66/6-MD25+GF15

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.47	--	g/cm ³	ISO 1183
Water Absorption (24 hr, 73°F)	1.1 to 1.2	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1.23E+6	653000	psi	ISO 527-1
Tensile Stress (Break)	18100	10200	psi	ISO 527-2
Tensile Strain (Break)	3.5	--	%	ISO 527-2
Flexural Modulus	1.17E+6	508000	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (73°F)	1.7	2.6	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	21	38	ft·lb/in ²	ISO 179/1eU
Notched Izod Impact Strength (73°F)	1.8	2.9	ft·lb/in ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature ²	468	--	°F	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	5.0E+15	--	ohms	IEC 62631-3-2
Volume Resistivity	1.0E+13	--	ohms·m	IEC 62631-3-1
Electric Strength	890	--	V/mil	IEC 60243-1
Comparative Tracking Index (CTI)	PLC 1	--		IEC 60112
Comparative Tracking Index	475	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (0.0394 in)	< 3.9	--	in/min	FMVSS 302

Processing Information

Injection	Dry Unit
Drying Temperature	176 °F
Suggested Max Moisture	0.20 %
Rear Temperature	491 to 509 °F
Middle Temperature	500 to 518 °F



Front Temperature	518 to 536 °F
Mold Temperature	158 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

