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TECHNYL®



TECHNICAL DATA SHEET

TECHNYL C 219S V35 BK 21N

(Previously DOMAMID 6G35H1 BK)

Polyamide 6, 35% glass fiber reinforced, heat-aging stabilized, for injection moulding

General

Feature	UL HB	Heat-aging stabilized
Polymer type	PA6 (Polyamide 6)	
Processing technology	Injection molding	
Certification	RoHS	UL-Yellow Card

Product identification

ISO 1043 abbreviation	PA6-GF35
ISO 16396 designation	PA6,GF35,M1H,S14-110

Physical properties				
Density		ISO 1183	g/cm³	1.41
Humidity absorption	T=23°C, 50% RH	ISO 62	%	2
Water absorption	24 hr, 23°C	ISO 62	%	6.3
Molding shrinkage, parallel		ISO 294-4, 2577	%	0.2 - 0.4
Molding shrinkage, normal		ISO 294-4, 2577	%	0.7 - 0.9
Viscosity number	96% H2SO4	ISO 307	cm³/g	145

Mechanical properties dam / cond.* Tensile modulus 1 mm/min ISO 527-1/-2 MPa 10800 / 7100 Stress at break 5 mm/min ISO 527-1/-2 MPa 185 / 115 ISO 527-1/-2 % Strain at break 5 mm/min 3/5.5Flexural modulus, ISO 178 2 mm/min ISO 178 MPa 9800 / 6500 Flexural strength, ISO 178 2 mm/min ISO 178 MPa 275 / 170 Charpy impact strength, +23°C +23°C ISO 179/1eU kJ/m² 95 / 105 +23°C ISO 179/1eA 15 / 25 Charpy notched impact strength, +23°C kJ/m² Izod impact strength, +23°C +23°C ISO 180/1U kJ/m^2 85 / 100 Izod notched impact strength, +23°C +23°C ISO 180/1A kJ/m² 15 / 25 Rockwell hardness ISO 2039/2 ScaleR 122 / -

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Inerma	properties

Melting temperature, 10°C/min		ISO 11357-1	°C	221
Temp. of deflection under load, 0.45 MPa	0.45 MPa	ISO 75	°C	220
Vicat softening temperature	50°C/h - 50N	ISO 306	°C	215

Electrical properties

Volume resistivity		IEC 62631-3-1	ohm.m	1E+013
Surface resistivity		IEC 62631-3-1	ohm	1E+013
Comparative tracking index	Solution A	IEC 60112	V	500
CTI performance level category		Sol A		PLC 1

Burning behaviour

UL Yellow Card availability 🕕	Click here to have access to the UL Yellow Card \rightarrow E170540-225451		
Flammability, 1.5 mm	1.5 mm	UL 94	НВ
Flammability, 3.0 mm	3.0 mm	UL 94	НВ
Burning rate, FMVSS, Thickness 1 mm		FMVSS 302	< 100 mm/min

Test run at 23°C if not differently specified, DAM state (dry as moulded), valid for natural colored products. *: conditioned according to ISO 1110

Processing conditions

Drying temperature/time	75-85°C / 2-4h (with dew point of dried air < -30 °C)
Recommended melt temperature	240 - 270 °C
Recommended mould temperature	90 °C

These parameters are typical of the product but should be related to the type of machinery used and to the type of moulded part.

Disclaimer

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