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TECHNYL®



TECHNICAL DATA SHEET

TECHNYL C 216S V30 BK

(Previously DOMAMID HCE 6G30 BK)

Polyamide 6, 30% glass fiber reinforced, improved surface finish, for injection moulding

TECHNYL C 216S V30 BK has been developped especially for gas molding and for those applications requiring painting, chrome plating or high quality surface aspect. This material is polyamide 6 based compound, glass fiber reinforced 30%, with an amorphous PA matrix.

General

Feature	Outstanding surface finish		
Polymer type	PA6 (Polyamide 6)		
Processing technology	Injection molding		
Certification	RoHS	EC 1907/2006 (REACH)	
Applications	Automotive Applications	Consumer good application	

Product identification

ISO 1043 abbreviation	PA6-GF30
ISO 16396 designation	PA6,GF30,M1,S14-100

Physical properties					
Density		ISO 1183	g/cm³	1.36	
Water absorption	24 hr, 23°C	ISO 62	%	6	
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	

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	Condition				
Mechanical properties				dam / cond.	
Tensile modulus	1 mm/min	ISO 527-1/-2	МРа	10000 / 6500	
Stress at break	5 mm/min	ISO 527-1/-2	МРа	185 / 120	
Strain at break	5 mm/min	ISO 527-1/-2	%	3.5 / 5	
Flexural modulus, ISO 178	2 mm/min	ISO 178	МРа	8600 / 5500	
Flexural strength, ISO 178	2 mm/min	ISO 178	МРа	275 / 175	
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m²	90 / 110	
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	15 / 28	
zod impact strength, +23°C	+23°C	ISO 180/1U	kJ/m²	80 / 95	
zod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m²	15 / 30	
Melting temperature, 10°C/min Temp. of deflection under load, 0.45 MPa	0.45 MPa	ISO 11357-1	°C	221	
Melting temperature, 10°C/min		ISO 11357-1	°C	221	
Femp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	200	
/icat 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					
Flammability, 0.75 mm	0.75 mm	UL 94		НВ	
Glow-wire flammability index, GWFI	1-3 mm	IEC 60695-2-12	°C	650	
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

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Processing conditions		
Drying temperature/time	75-85°C / 2-4h (with dew point of dried air < -30 °C)	
Rear temperature	230 - 240 °C	
Middle temperature	240 - 250 °C	
Front temperature	250 - 270 °C	
Recommended melt temperature	230 - 270 °C	
Recommended mould temperature	90 - 100 °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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