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TECHNICAL DATA SHEET

TECHNYL C 216 V30 GY G1836 CF

Polyamide 6, 30% glass fiber reinforced, for injection moulding

General

Polymer type	PA6 (Polyamide 6)		
Processing technology	Injection molding		
Certification	RoHS EC 1907/2006 (REACH)	UL-Yellow Card	
Colors available	Black Grey	Natural	
Forms	Pellets		

Product identification

ISO 1043 abbreviation	PA6-GF30
ISO 16396 designation	PA6,GF30,M1,S14-090

	Condition						
Physical properties							
Density		ISO 1183	g/cm³	1.36			
Humidity absorption	T=23°C, 50% RH	ISO 62	%	2.2 - 2.4			
Water absorption	24 hr, 23°C	ISO 62	%	1.4 - 1.5			
Water absorption, saturation			%	6.2			
Molding shrinkage, parallel		ISO 294-4, 2577	%	0.3 - 0.5			
Molding shrinkage, normal		ISO 294-4, 2577	%	0.8 - 1			

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Mechanical properties				dam / cond.*	
Tensile modulus	1 mm/min	ISO 527-1/-2	МРа	9500 / 6000	
Stress at break		ISO 527-1/-2	MPa	180 / 110	
Strain at break		ISO 527-1/-2	%	3.5 / 6	
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	8500 / 5000	
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	270 / 160	
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m²	90 / 105	
Charpy impact strength, -30°C	-30°C	ISO 179/1eU	kJ/m²	75 / 90	
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	15 / 25	
Charpy notched impact strength, -30°C	-30°C	ISO 179/1eA	kJ/m²	9 / 22	
zod impact strength, +23°C	+23°C	ISO 180/1U	kJ/m²	80 / 90	
zod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m²	15 / 25	
Rockwell hardness		ISO 2039/2	ScaleR	122 / -	
Thermal 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	
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°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	
*: 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 - 100 °C				
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