

TECHNYL® C 218 V30 NATURAL

Polyamide 6
Solvay Engineering Plastics

Message:

TECHNYL® C 218 V30 Natural is a polyamide 6, heat stabilized, reinforced with 30% of glass fiber, for injection moulding.

General Information				
UL YellowCard		E44716-235523		
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Additive		Heat Stabilizer		
Features		Heat Stabilized		
Agency Ratings		UU 453/2010/EC		
RoHS Compliance		RoHS Compliant		
Appearance		Natural Color		
Processing Method		Injection Molding		
Multi-Point Data		Isothermal Stress vs. Strain (ISO 11403-1)		
		Secant Modulus vs. Strain (ISO 11403-1)		
		Viscosity vs. Shear Rate (ISO 11403-2)		
Part Marking Code (ISO 11469)		>PA6-GF30<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.36	--	g/cm ³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	0.70	--	%	
Flow	0.30	--	%	
Water Absorption (23°C, 24 hr)	1.1	--	%	ISO 62
Molding Shrinkage Isotropy	0.430	--		Internal Method
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9600	6200	MPa	ISO 527-2/1A
Tensile Strength				
Break	170	--	MPa	ASTM D638
Break	190	110	MPa	ISO 527-2/1A
Tensile Elongation				
Break	3.5	--	%	ASTM D638
Break	3.2	4.5	%	ISO 527-2/1A
Flexural Modulus				
--	8900	--	MPa	ASTM D790
--	8400	4900	MPa	ISO 178
Flexural Strength	255	--	MPa	ASTM D790

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	15	32	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	92	110	kJ/m ²	ISO 179/1eU
Notched Izod Impact				
23°C	130	--	J/m	ASTM D256
23°C	14	24	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	205	--	°C	ASTM D648, ISO 75-2/Af
Melting Temperature	222	--	°C	ISO 11357-3
CLTE - Transverse (23 to 85°C)	3.2E-5	--	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	1.0E+11	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+11	ohms·cm	IEC 60093
Electric Strength	--	22	kV/mm	IEC 60243-1
Relative Permittivity	3.80	4.50		IEC 60250
Dissipation Factor	0.020	0.090		IEC 60250
Comparative Tracking Index				IEC 60112
Solution A	600	600	V	
Solution B	475	--	V	
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.400 to 3.20 mm)	HB	--		UL 94
Glow Wire Flammability Index (1.60 to 3.20 mm)	650	--	°C	IEC 60695-2-12
Oxygen Index	23	--	%	ISO 4589-2
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	230 to 235		°C	
Middle Temperature	235 to 245		°C	
Front Temperature	245 to 250		°C	
Mold Temperature	70.0 to 100		°C	

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