TECHNYL® C 216 V30 NATURAL

Polyamide 6

Solvay Engineering Plastics

Message:

TECHNYL® C 216 V30 Natural is a polyamide 6, reinforced with 30% of glass fibre, for injection moulding. This product is available in natural color.

General Information	
UL YellowCard	E44716-235521
Filler / Reinforcement	Glass Fiber,30% Filler by Weight
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/cm³	ISO 1183/A
Molding Shrinkage				ISO 294-4
Across Flow	0.35	--	%	
Flow	0.65	--	%	
Water Absorption (23°C, 24 hr)	1.1	--	%	ISO 62

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9600	6200	MPa	ISO 527-2/1A
Tensile Stress (Break)	190	110	MPa	ISO 527-2/1A
Tensile Strain (Break)	3.8	4.5	%	ISO 527-2/1A
Flexural Modulus				
--	8000	--	MPa	ASTM D790
--	9500	5500	MPa	ISO 178
Flexural Strength	235	--	MPa	ASTM D790

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	15	32	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	100	110	kJ/m²	ISO 179/1eU
Notched Izod Impact				
23°C	120	--	J/m	ASTM D256
23°C	14	24	kJ/m²	ISO 180/1A

Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
1.8 MPa, Unannealed	210	--	°C	ASTM D648
1.8 MPa, Unannealed	205	--	°C	ISO 75-2/Af
Melting Temperature	222	--	°C	ISO 11357-3
Peak Crystallization Temperature	190	--	°C	ISO 11357-3
CLTE - Flow (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				UL 94
0.800 mm	HB	--		
3.20 mm	HB	--		
Glow Wire Flammability Index (1.60 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	

Recommended distributors for this material

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