

TECHNYL® C 246 V30 NATURAL

Polyamide 6
Solvay Engineering Plastics

Message:
Polyamide PA6, reinforced with 30 % of glass fibre, high impact strength, for injection moulding.

General Information				
UL YellowCard		E44716-235524		
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Features		High Impact Resistance		
Uses		Power/Other Tools		
		Sporting Goods		
Appearance		Colors Available		
		Natural Color		
Processing Method		Injection Molding		
Multi-Point Data		Isothermal Stress vs. Strain (ISO 11403-1)		
		Secant Modulus vs. Strain (ISO 11403-1)		
Part Marking Code (ISO 11469)		>PA6-GF30<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.32	--	g/cm ³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	0.79	--	%	
Flow	0.44	--	%	
Water Absorption (23°C, 24 hr)	0.95	--	%	ISO 62
Molding Shrinkage Isotropy	0.560	--		Internal Method
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	8200	5400	MPa	ISO 527-2/1A
Tensile Stress (Break)	140	90.0	MPa	ISO 527-2/1A
Tensile Strain (Break)	4.0	7.0	%	ISO 527-2/1A
Flexural Modulus	8000	5200	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
--	18	30	kJ/m ²	
-30°C	11	--	kJ/m ²	

Charpy Unnotched Impact Strength				ISO 179/1eU
--	86	100	kJ/m ²	
-30°C	85	--	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
17		29	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)				ISO 75-2/Af
195		--	°C	
Melting Temperature				ISO 11357-3
222		--	°C	
CLTE - Transverse (23 to 85°C)				ISO 11359-2
3.0E-5		--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity				IEC 60093
1.0E+13		1.0E+11	ohms	
Volume Resistivity				IEC 60093
1.0E+15		1.0E+11	ohms·cm	
Electric Strength				IEC 60243-1
--		21	kV/mm	
Dissipation Factor				IEC 60250
0.020		0.10		
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)				UL 94
HB		--		
Injection	Dry	Unit		
Drying Temperature				°C
80.0				
Suggested Max Moisture				%
0.20				
Rear Temperature				°C
22.0 to 230				
Middle Temperature				°C
225 to 235				
Front Temperature				°C
230 to 240				
Mold Temperature				°C
70.0 to 90.0				

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