TECHNYL® C 218 V35 BLACK 21N

Polyamide 6

Solvay Engineering Plastics

Message:

TECHNYL® C 218 V35 Black 21N is a polyamide 6, reinforced with 35% of glass fiber, heat stabilized, for injection moulding. The product offers an excellent combination between thermal and mechanical properties.

General Information	
Filler / Reinforcement	Glass fiber reinforced material, 35% filler by weight
Additive	heat stabilizer
Features	Heat Stabilized - Inorganic Good liquidity Good demoulding performance
Uses	Electrical/Electronic Applications Application in Automobile Field
RoHS Compliance	RoHS compliance
Appearance	Black Natural color
Forms	Particle
Processing Method	Injection molding
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1) Viscosity vs. Shear Rate (ISO 11403-2)
Resin ID (ISO 1043)	PA6-GF35

Physical	Dry	Conditioned	Unit	Test Method
Density	1.41	--	g/cm³	ISO 1183/A
Water Absorption				ISO 62
23°C, 24 hr	0.90	--	%	ISO 62
Saturated, 23°C	2.1	--	%	ISO 62
Equilibrium, 23°C, 50% RH	1.9	--	%	ISO 62

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	11000	6500	MPa	ISO 527-2/1A
Tensile Stress (Break, 23°C)	195	115	MPa	ISO 527-2/1A
Tensile Strain (Break, 23°C)	3.0	7.0	%	ISO 527-2
Flexural Modulus				
23°C	9600	--	MPa	ASTM D790
23°C	9600	6000	MPa	ISO 178

Flexural Strength				
23°C	260	--	MPa	ASTM D790
23°C	280	185	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	17	19	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength				
23°C	83	94	kJ/m²	ISO 179/1eU
23°C	74	80	kJ/m²	ISO 179/1fU
Notched Izod Impact (23°C)	15	28	kJ/m²	ISO 180
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load				
1.8 MPa, not annealed	205	--	°C	ASTM D648
1.8 MPa, not annealed	210	--	°C	ISO 75-2/Af
Melting Temperature	222	--	°C	ISO 11357-3
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Surface Resistivity	1.0E+14	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+13	ohms·cm	IEC 60093
Dielectric Strength (2.00 mm)	--	22	kV/mm	IEC 60243-1
Dissipation Factor	0.020	0.090		IEC 60250
Comparative Tracking Index (Solution A)	550	475	V	IEC 60112
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Glow Wire Flammability Index				IEC 60695-2-12
1.6 mm	650	--	°C	IEC 60695-2-12
3.2 mm	650	--	°C	IEC 60695-2-12

Recommended distributors for this material

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