TECHNYL® C 52G1 V20 GREY R7035 CF

Polyamide 6

Solvay Engineering Plastics

Message:

Halogen and Red Phosphorous free fire resistant polyamide PA6 Glass reinforced for injection moulding of thin walled parts

General Information	
Filler / Reinforcement	Glass Fiber,20% Filler by Weight
Additive	Flame Retardant
Features	Flame Retardant Good Electrical Properties Good Moldability Halogen Free Low (to None) Phosphorus Content
Uses	Housings Switches Thin-walled Parts
Appearance	Black Colors Available Grey Natural Color White
Processing Method	Injection Molding
Part Marking Code (ISO 11469)	>PA6-GF20<

Physical	Dry	Conditioned	Unit	Test Method
Density	1.32	--	g/cm³	ISO 1183/A
Molding Shrinkage				ISO 294-4
Across Flow	0.70	--	%	
Flow	0.90	--	%	
Water Absorption (23°C, 24 hr)	1.1	--	%	ISO 62

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	6700	4550	MPa	ISO 527-2/1A
Tensile Stress (Break)	92.0	65.0	MPa	ISO 527-2/1A
Tensile Strain (Break)	2.9	4.8	%	ISO 527-2/1A

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA

--	3.2	8.6	kJ/m²	
-30°C	3.1	3.4	kJ/m²	
Charpy Unnotched Impact Strength	39	79	kJ/m²	ISO 179/1eU
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
0.45 MPa, Unannealed	210	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	170	--	°C	ISO 75-2/Af
Melting Temperature	222	--	°C	ISO 11357-3
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Electric Strength	31	27	kV/mm	IEC 60243-1
Comparative Tracking Index (Solution A)	450	--	V	IEC 60112
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Flame Rating				UL 94
0.800 mm	V-2	--		
1.60 mm	V-2	--		
3.20 mm	V-2	--		
Glow Wire Flammability Index				IEC 60695-2-12
0.800 mm	960	--	°C	
1.60 mm	960	--	°C	
3.20 mm	960	--	°C	
Glow Wire Ignition Temperature				IEC 60695-2-13
0.800 mm	725	--	°C	
1.60 mm	700	--	°C	
Oxygen Index	29	--	%	ISO 4589-2
Injection	**Dry**	**Unit**		
Drying Temperature	80.0		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	220 to 230		°C	
Middle Temperature	230 to 240		°C	
Front Temperature	245 to 255		°C	
Mold Temperature	80.0		°C	

Recommended distributors for this material

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