

TECHNYL® C 52G3 MZ25 GREY R7035 CF

Polyamide 6
Solvay Engineering Plastics

Message:
Flame retardant polyamide PA6 reinforced with mineral filler, for injection moulding.

General Information				
Filler / Reinforcement		Mineral		
Additive		Flame Retardant		
Features		Flame Retardant		
		Halogen Free		
		Low (to None) Phosphorus Content		
Appearance		Grey		
Processing Method		Injection Molding		
Part Marking Code (ISO 11469)		>PA6+MD FR(30)<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.37	--	g/cm ³	ISO 1183/A
Molding Shrinkage				ISO 294-4
Across Flow	0.80	--	%	
Flow	0.75	--	%	
Water Absorption (23°C, 24 hr)	1.0	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	6000	2500	MPa	ISO 527-2/1A
Tensile Stress				ISO 527-2/1A
Yield	--	35.0	MPa	
Break	80.0	35.0	MPa	
Tensile Strain				ISO 527-2/1A
Yield	--	18	%	
Break	3.0	12	%	
Flexural Modulus	6000	2300	MPa	ISO 178
Flexural Stress	136	56.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	3.0	5.8	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	45	60	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	145	--	°C	ISO 75-2/Af

Melting Temperature	222	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index (Solution A)	600	--	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	
Oxygen Index	31	--	%	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	

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