

TECHNYL® C 52G4 MZ25 GREY R7035

Polyamide 6
Solvay Engineering Plastics

Message:

TECHNYL® C 52G4 MZ25 Grey R7035 is a 25% mineral reinforced melamine cyanurate flame retarded polyamide 6.This product is heat stabilised and is suitable for injection moulding. This product is available in both dark and light electrical Grey, other color

General Information			
Filler / Reinforcement	Mineral,25% Filler by Weight		
Additive	Flame Retardant		
	Heat Stabilizer		
Features	Arc Resistant		
	Flame Retardant		
	Good Processability		
	Heat Stabilized		
Uses	Housings		
	Thin-walled Parts		
Agency Ratings	UU 453/2010/EC		
RoHS Compliance	RoHS Compliant		
Appearance	Colors Available		
	Grey		
Processing Method	Injection Molding		
Part Marking Code (ISO 11469)	>PA6-MD25 FR(30)<		
Physical	Nominal Value	Unit	Test Method
Density	1.37	g/cm³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (275°C/2.16 kg)	20	g/10 min	ISO 1133
Molding Shrinkage			Internal Method
Across Flow	0.80	%	
Flow	0.80	%	
Water Absorption (23°C, 24 hr)	1.0	%	ISO 62
Molding Shrinkage Isotropy	1.00		Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6400	MPa	ISO 527-2/1A
Tensile Strength (Break)	75.0	MPa	ASTM D638, ISO 527-2/1A
Tensile Elongation (Break)	3.0	%	ASTM D638, ISO 527-2/1A
Flexural Modulus			

--	5700	MPa	ASTM D790
--	6000	MPa	ISO 178
Flexural Stress			
--	136	MPa	ISO 178
Break	130	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	47	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C)	55	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	205	°C	ASTM D648
1.8 MPa, Unannealed	145	°C	ASTM D648
1.8 MPa, Unannealed	130	°C	ISO 75-2/Af
Melting Temperature	222	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (Solution A)	525	V	IEC 60112
Flammability	Nominal Value	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	Nominal Value	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	

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