

TECHNYL® C 218 MZ20 V10 BLACK Z

Polyamide 6
Solvay Engineering Plastics

Message:
Polyamide PA6, reinforced 20 % mineral filler and 10 % of glass fibre, heat stabilized, for injection moulding.

General Information				
Filler / Reinforcement		Glass Fiber,10% Filler by Weight Mineral,20% Filler by Weight		
Additive		Heat Stabilizer		
Features		Good Dimensional Stability Heat Stabilized Low Warpage		
Uses		Automotive Applications Housings		
Appearance		Black		
Processing Method		Injection Molding		
Part Marking Code (ISO 11469)		>PA6-(MD20+GF10)<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.36	--	g/cm ³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	0.95	--	%	
Flow	0.54	--	%	
Molding Shrinkage Isotropy	0.570	--		Internal Method
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	7400	4500	MPa	ISO 527-2/1A
Tensile Stress (Break)	100	60.0	MPa	ISO 527-2/1A
Tensile Strain (Break)	3.3	5.5	%	ISO 527-2/1A
Flexural Modulus	9300	--	MPa	ISO 178
Flexural Stress	255	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	14	10	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	60	85	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength	15	--	kJ/m ²	ISO 180/1A

Unnotched Izod Impact Strength	--	82	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	205	--	°C	ISO 75-2/Af
Melting Temperature	222	--	°C	ISO 11357-3
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	220 to 240		°C	
Middle Temperature	230 to 250		°C	
Front Temperature	250 to 260		°C	
Mold Temperature	80.0 to 100		°C	

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