

TECHNYL® A 218 MZ15 V25 BLACK 31 N

Polyamide 66
Solvay Engineering Plastics

Message:

TECHNYL® A 218 MZ15 V25 Black 31 N is a polyamide 66, reinforced with 25% of glass fibre and 15% of mineral filler, heat stabilized, for injection moulding. This product is available in black color.

General Information				
Filler / Reinforcement		Glass Fiber,25% Filler by Weight Mineral,15% Filler by Weight		
Additive		Heat Stabilizer		
Features		Good Surface Finish Heat Stabilized Low Warpage		
Agency Ratings		UU 453/2010/EC		
RoHS Compliance		RoHS Compliant		
Appearance		Black		
Processing Method		Injection Molding		
Part Marking Code (ISO 11469)		>PA66-(GF25+MD15)<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.47	--	g/cm ³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	1.0	--	%	
Flow	0.66	--	%	
Water Absorption (23°C, 24 hr)	1.0	--	%	ISO 62
Molding Shrinkage Isotropy	0.650	--		Internal Method
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	10000	7500	MPa	ISO 527-2/1A
Tensile Strength				
Break	150	--	MPa	ASTM D638
Break	140	115	MPa	ISO 527-2/1A
Tensile Elongation				
Break	2.0	--	%	ASTM D638
Break	2.0	3.0	%	ISO 527-2/1A
Flexural Modulus				
--	9600	--	MPa	ASTM D790
--	9000	--	MPa	ISO 178

Flexural Strength				
--	220	--	MPa	ASTM D790
--	210	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	7.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength	45	55	kJ/m²	ISO 179/1eU
Notched Izod Impact				
23°C	70	--	J/m	ASTM D256
23°C	4.0	6.0	kJ/m²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	240	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	240	--	°C	ISO 75-2/Af
Melting Temperature	263	--	°C	ISO 11357-3
Flammability	Dry	Conditioned	Test Method	
Flame Rating (1.60 mm)	HB	--	UL 94	
Injection	Dry	Unit		
Drying Temperature	80.0			°C
Suggested Max Moisture	0.20			%
Rear Temperature	265 to 275			°C
Middle Temperature	270 to 280			°C
Front Temperature	280 to 290			°C
Mold Temperature	70.0 to 100			°C

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