TECHNYL® A 218 MT15 V25 BLACK 21 N

Polyamide 66

Solvay Engineering Plastics

Message:

Polyamide 66 , reinforced with 25% of glass fibre and 15% of mineral filler , heat stabilized , for injection moulding.

General Information	
Filler / Reinforcement	Glass Fiber,25% Filler by Weight Mineral,15% Filler by Weight
Additive	Heat Stabilizer
Features	Heat Stabilized Low Warpage
Uses	Automotive Applications
Appearance	Black
Processing Method	Injection Molding
Part Marking Code (ISO 11469)	>PA66-(MD+GF)40<

Physical	Dry	Conditioned	Unit	Test Method
Density	1.47	--	g/cm³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	1.2	--	%	
Flow	0.65	--	%	
Water Absorption (23°C, 24 hr)	1.4	--	%	ISO 62
Molding Shrinkage Isotropy	0.540	--		Internal Method

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9000	5500	MPa	ISO 527-2/1A
Tensile Stress (Break)	140	100	MPa	ISO 527-2/1A
Tensile Strain (Break)	2.4	5.0	%	ISO 527-2/1A
Flexural Modulus	8500	5000	MPa	ISO 178

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	4.0	6.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength	45	80	kJ/m²	ISO 179/1eU
Notched Izod Impact Strength	4.0	6.5	kJ/m²	ISO 180/1A

Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature (1.8 MPa, Unannealed)	240	--	°C	ISO 75-2/Af
Melting Temperature	263	--	°C	ISO 11357-3
CLTE - Transverse (23 to 85°C)	3.5E-5	--	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	5.0E+14	3.0E+12	ohms	IEC 60093
Volume Resistivity	3.0E+15	3.0E+15	ohms·cm	IEC 60093
Electric Strength	35	35	kV/mm	IEC 60243-1
Relative Permittivity	3.70	4.00		IEC 60250
Dissipation Factor	0.020	0.080		IEC 60250
Comparative Tracking Index (Solution A)	425	425	V	IEC 60112
Flammability	Dry	Conditioned	Unit	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	260 to 265		°C	
Middle Temperature	270 to 280		°C	
Front Temperature	280 to 290		°C	
Mold Temperature	80.0 to 100		°C	

Recommended distributors for this material

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