

TECHNYL® A 246M BLACK 21 N

Polyamide 66
Solvay Engineering Plastics

Message:

TECHNYL® A 246M Black 21 N is an unfilled polyamide 6.6, impact modified, for injection molding. The product is available in black color.

General Information				
Additive	Impact Modifier			
Features	High Impact Resistance			
	Impact Modified			
	Low Temperature Impact Resistance			
Uses	Automotive Applications			
	Sporting Goods			
Agency Ratings	UU 453/2010/EC			
RoHS Compliance	RoHS Compliant			
Appearance	Black			
Processing Method	Injection Molding			
Part Marking Code (ISO 11469)	>PA66-I<			
Physical	Dry	Conditioned	Unit	Test Method
Molding Shrinkage				Internal Method
Across Flow	1.9	--	%	
Flow	1.9	--	%	
Water Absorption (23°C, 24 hr)	1.1	--	%	ISO 62
Molding Shrinkage Isotropy	1.00	--		Internal Method
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1900	600	MPa	ISO 527-2/1A
Tensile Strength				
Yield	50.0	--	MPa	ASTM D638
Yield	47.0	42.0	MPa	ISO 527-2/1A
Break	44.0	35.0	MPa	ISO 527-2/1A
Tensile Strain				
Yield	20	210	%	ISO 527-2/1A
Break	80	--	%	ASTM D638
Flexural Modulus	1800	--	MPa	ASTM D790
Flexural Strength				
--	70.0	--	MPa	ASTM D790
--	70.0	27.0	MPa	ISO 178

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	97	100	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				
-30°C	16	--	kJ/m ²	ISO 179/1fU
23°C	No Break	--		ISO 179/1eU
Notched Izod Impact				
23°C	1.0	120	J/m	ASTM D256
-30°C	22	--	kJ/m ²	ISO 180/1A
23°C	60	80	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	200	--	°C	ASTM D648
1.8 MPa, Unannealed	63.0	--	°C	ASTM D648
1.8 MPa, Unannealed	65.0	--	°C	ISO 75-2/Af
Melting Temperature	263	--	°C	ISO 11357-3
CLTE - Flow (23 to 85°C)	7.0E-5	--	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+14	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+13	ohms·cm	IEC 60093
Electric Strength	30	38	kV/mm	IEC 60243-1
Relative Permittivity	3.20	4.00		IEC 60250
Dissipation Factor	0.020	0.060		IEC 60250
Comparative Tracking Index				IEC 60112
Solution A	575	600	V	
Solution B	450	--	V	
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)	HB	--		UL 94
Oxygen Index	25	--	%	ISO 4589-2
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	250 to 270		°C	
Middle Temperature	260 to 280		°C	
Front Temperature	270 to 290		°C	
Mold Temperature	60.0 to 80.0		°C	

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