

TECHNYL® A 238 BLACK 21 N

Polyamide 66
Solvay Engineering Plastics

Message:
Unreinforced and modified polyamide 66, with improved impact resistance, heat stabilized, for injection moulding.

General Information				
Additive		Heat Stabilizer		
Features	Good Impact Resistance			
	Good Stiffness			
	Heat Stabilized			
Uses	Automotive Applications			
	Fasteners			
Appearance		Black		
Processing Method		Injection Molding		
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)			
	Secant Modulus vs. Strain (ISO 11403-1)			
	Viscosity vs. Shear Rate (ISO 11403-2)			
Part Marking Code (ISO 11469)		>PA66<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.10	--	g/cm ³	ISO 1183/A
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	2550	1400	MPa	ISO 527-2/1A
Tensile Stress				ISO 527-2/1A
Yield	70.0	40.0	MPa	
Break	50.0	40.0	MPa	
Tensile Strain				ISO 527-2/1A
Yield	5.0	15	%	
Break	30	200	%	
Flexural Modulus	2250	1200	MPa	ISO 178
Flexural Stress	95.0	47.0	MPa	ISO 178

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	8.0	20	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	No Break	No Break		ISO 179/1eU
Notched Izod Impact Strength	8.0	16	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	70.0	--	°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+12	ohms·cm	IEC 60093
Electric Strength	32	32	kV/mm	IEC 60243-1
Relative Permittivity	3.20	3.80		IEC 60250
Dissipation Factor	0.020	0.040		IEC 60250
Comparative Tracking Index				IEC 60112
Solution A	500	600	V	
Solution B	450	--	V	
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)	HB	--		UL 94
Oxygen Index	21	--	%	ISO 4589-2
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	240 to 250		°C	
Middle Temperature	250 to 260		°C	
Front Temperature	260 to 270		°C	
Mold Temperature	60.0 to 80.0		°C	

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