

TECHNYL® A 216 S40 NATURAL

Polyamide 66
Solvay Engineering Plastics

Message:
Polyamide 66, reinforced with 40% of glass spheres, for injection moulding.

General Information				
Filler / Reinforcement	Glass Bead,40% Filler by Weight			
Features	Good Surface Finish			
	Low Warpage			
Appearance	Black			
	Colors Available			
	Natural Color			
Processing Method	Injection Molding			
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)			
Part Marking Code (ISO 11469)	>PA66-GB40<			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.47	--	g/cm ³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	1.4	--	%	
Flow	1.4	--	%	
Water Absorption (23°C, 24 hr)	0.70	--	%	ISO 62
Molding Shrinkage Isotropy	1.00	--		Internal Method
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	5000	3000	MPa	ISO 527-2/1A
Tensile Stress				ISO 527-2/1A
Yield	90.0	55.0	MPa	
Break	85.0	50.0	MPa	
Tensile Strain				ISO 527-2/1A
Yield	4.0	20	%	
Break	15	35	%	
Flexural Modulus	4700	2450	MPa	ISO 178
Flexural Stress	150	75.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	4.0	7.5	kJ/m ²	ISO 179/1eA

Charpy Unnotched Impact Strength	25 kJ/m ²	No Break		ISO 179/1eU
Notched Izod Impact Strength	3.0	7.0	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	100	--	°C	ISO 75-2/Af
Melting Temperature	263	--	°C	ISO 11357-3
CLTE - Transverse (23 to 85°C)	6.0E-5	--	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	5.0E+14	5.0E+11	ohms	IEC 60093
Volume Resistivity	5.0E+14	1.0E+13	ohms·cm	IEC 60093
Electric Strength	28	26	kV/mm	IEC 60243-1
Dissipation Factor	0.020	0.11		IEC 60250
Comparative Tracking Index				IEC 60112
Solution A	600	500	V	
Solution B	500	--	V	
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	260 to 270		°C	
Middle Temperature	270 to 280		°C	
Front Temperature	280 to 290		°C	
Mold Temperature	60.0 to 80.0		°C	

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