

TECHNYL® 2412GHF8 BLACK

Polyamide 66
Solvay Engineering Plastics

Message:
Polyamide 66, reinforced with 40% of glass fiber, heat stabilized for injection molding

General Information				
Filler / Reinforcement		Glass Fiber,40% Filler by Weight		
Additive		Heat Stabilizer		
Features		Heat Stabilized		
Uses		Automotive Applications		
		Housings		
Appearance		Black		
		Colors Available		
Processing Method		Injection Molding		
Part Marking Code (ISO 11469)		>PA66-GF40<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.46	--	g/cm ³	ISO 1183
Molding Shrinkage				Internal Method
Across Flow	0.70	--	%	
Flow	0.40	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	0.70	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength (Yield)	205	--	MPa	ASTM D638
Tensile Elongation (Break)	3.0	--	%	ASTM D638
Flexural Modulus	11000	--	MPa	ASTM D790
Flexural Strength	305	--	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact	140	--	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	255	--	°C	ASTM D648
Melting Temperature	262	--	°C	ISO 11357-3
CLTE - Transverse (23 to 85°C)	2.0E-5	--	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	6.0E+14	1.0E+12	ohms	IEC 60093

Volume Resistivity	1.0E+15	1.0E+13	ohms·cm	IEC 60093
Electric Strength	35	30	kV/mm	IEC 60243-1
Dissipation Factor	0.010	0.11		IEC 60250
Comparative Tracking Index (Solution A)	450	450	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.800 to 3.20 mm)	HB	--		UL 94
Oxygen Index	23	--	%	ISO 4589-2
Injection	Dry	Unit		
Drying Temperature	80.0 to 100		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	265 to 270		°C	
Middle Temperature	270 to 280		°C	
Front Temperature	280 to 290		°C	
Mold Temperature	80.0 to 100		°C	

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