

Stanyl® 46SF5030

Polyamide 46
DSM Engineering Plastics

Message:

Stanyl® 46SF5030 is a Polyamide 46 (Nylon 46) material filled with 30% glass fiber. It is available in Asia Pacific, Europe, or North America. Important attributes of Stanyl® 46SF5030 are:
Flame Rated
Flame Retardant
Heat Stabilizer
High Flow

General Information				
UL YellowCard		E47960-100751282	E172082-506872	
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Additive		Flame Retardant		
		Heat Stabilizer		
Features		Flame Retardant		
		Heat Stabilized		
		High Flow		
Forms		Pellets		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.68	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.40	--	%	
Flow	1.1	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.6	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	12000	7500	MPa	ISO 527-2
Tensile Stress (Break)	170	110	MPa	ISO 527-2
Tensile Strain (Break)	1.9	2.8	%	ISO 527-2
Flexural Modulus	11000	6800	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	12	12	kJ/m²	
23°C	13	13	kJ/m²	
Charpy Unnotched Impact Strength (23°C)	40	40	kJ/m²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature (1.8 MPa, Unannealed)	290	--	°C	ISO 75-2/A
Melting Temperature ¹	295	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	2.0E-5	--	cm/cm/°C	
Transverse	4.5E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	> 1.0E+15	1.0E+10	ohms·cm	IEC 60093
Electric Strength	30	20	kV/mm	IEC 60243-1
Comparative Tracking Index	225	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
0.350 mm	V-0	--		
1.50 mm	V-0	--		
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	4.0 to 8.0		hr	
Rear Temperature	280 to 310		°C	
Middle Temperature	300 to 315		°C	
Front Temperature	300 to 315		°C	
Nozzle Temperature	300 to 310		°C	
Processing (Melt) Temp	310 to 320		°C	
Mold Temperature	60.0 to 120		°C	
Injection Rate	Moderate-Fast			
Back Pressure	1.00		MPa	
Screw Compression Ratio	2.5:1.0			
NOTE				
1.	10°C/min			

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