

Stanyl® TS256F6

Polyamide 46
DSM Engineering Plastics

Message:

Stanyl® TS256F6 is a Polyamide 46 (Nylon 46) material filled with 30% glass fiber. It is available in Asia Pacific.
Important attributes of Stanyl® TS256F6 are:
Flame Rated
Flame Retardant
Moisture Resistant

General Information			
UL YellowCard	E47960-240070	E172082-225875	
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
	Low to No Water Absorption		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.56	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.0	%	
Flow	0.30	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.5	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	12000	MPa	ISO 527-2
Tensile Stress (Break)	170	MPa	ISO 527-2
Tensile Strain (Break)	2.0	%	ISO 527-2
Flexural Modulus	10000	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	8.0	kJ/m²	
23°C	8.0	kJ/m²	
Thermal	Nominal Value	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	8.0E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method

Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Electric Strength	30	kV/mm	IEC 60243-1
Flammability	Nominal Value	Unit	Test Method
Flammability Classification			IEC 60695-11-10, -20
0.750 mm	V-0		
1.50 mm	V-0		
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	4.0 to 8.0	hr	
Rear Temperature	280 to 320	°C	
Middle Temperature	300 to 320	°C	
Front Temperature	300 to 320	°C	
Nozzle Temperature	300 to 320	°C	
Processing (Melt) Temp	305 to 320	°C	
Mold Temperature	80.0 to 120	°C	
Injection Rate	Moderate-Fast		
Back Pressure	2.00 to 10.0	MPa	
Screw Compression Ratio	2.5:1.0		
NOTE			
1.	10°C/min		

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