

Stanyl® TS271A1

Polyamide 46
DSM Engineering Plastics

Message:

Stanyl® TS271A1 is a Polyamide 46 (Nylon 46) material filled with aramid fiber. It is available in Asia Pacific. Primary attribute of Stanyl® TS271A1: Flame Rated.

General Information			
UL YellowCard	E172082-225887		
Filler / Reinforcement	Aramid Fiber		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.5	%	
Flow	1.5	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.9	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2800	MPa	ISO 527-2
Tensile Stress (Break)	90.0	MPa	ISO 527-2
Tensile Strain (Break)	13	%	ISO 527-2
Flexural Modulus	3100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	200	°C	ISO 75-2/A
Melting Temperature ¹	295	°C	ISO 11357-3
Flammability	Nominal Value		Test Method
Flammability Classification (0.750 mm)	HB		IEC 60695-11-10, -20
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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Recommended distributors for this material

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