

Stanyl® TS350

Polyamide 46
DSM Engineering Plastics

Message:

Stanyl® TS350 is a Polyamide 46 (Nylon 46) material. It is available in Asia Pacific.

Important attributes of Stanyl® TS350 are:

Flame Rated
Flame Retardant

General Information				
UL YellowCard		E47960-631163	E172082-225877	
Additive		Flame Retardant		
Features		Flame Retardant		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.43	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.5	--	%	
Flow	1.5	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.4	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3400	--	MPa	ISO 527-2
Tensile Stress (Yield)	80.0	--	MPa	ISO 527-2
Nominal Tensile Strain at Break	7.0	--	%	ISO 527-2
Flexural Modulus	3200	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	3.0	--	kJ/m ²	
23°C	4.0	--	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	190	--	°C	ISO 75-2/A
Melting Temperature	295	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	8.0E-5	--	cm/cm/°C	
Transverse	9.0E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+15	1.0E+9	ohms · cm	IEC 60093
Electric Strength	30	25	kV/mm	IEC 60243-1
Flammability	Dry	Conditioned	Unit	Test Method

Flammability Classification			IEC 60695-11-10, -20
0.750 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 320		°C
Middle Temperature	300 to 320		°C
Front Temperature	300 to 320		°C
Nozzle Temperature	300 to 320		°C
Processing (Melt) Temp	310 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		

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