

Stanyl® ForTii™ K12

Polyamide 4T

DSM Engineering Plastics

Message:

For E&E applications

General Information				
UL YellowCard		E47960-100961700		
Filler / Reinforcement		Glass Fiber,40% Filler by Weight		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.51	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.0	--	%	
Flow	0.35	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.8	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	13500	--	MPa	ISO 527-2
Tensile Stress (Break)	210	--	MPa	ISO 527-2
Tensile Strain (Break)	2.0	--	%	ISO 527-2
Flexural Modulus	13500	--	MPa	ISO 178
Flexural Stress	330	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	11	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	65	--	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	305	--	°C	ISO 75-2/A
Melting Temperature ¹	325	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	3.0E-5	--	cm/cm/°C	
Transverse	4.0E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	> 1.0E+15	> 1.0E+15	ohms · cm	IEC 60093
Electric Strength	33	33	kV/mm	IEC 60243-1
Comparative Tracking Index	600	--	V	IEC 60112

Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
0.800 mm	HB	--		
1.50 mm	HB	--		
Injection	Dry	Unit		
Drying Temperature	100		°C	
Drying Time	4.0 to 8.0		hr	
Rear Temperature	320 to 330		°C	
Middle Temperature	325 to 335		°C	
Front Temperature	330 to 335		°C	
Nozzle Temperature	330 to 335		°C	
Processing (Melt) Temp	330 to 340		°C	
Mold Temperature	100 to 150		°C	
Injection Rate	Moderate-Fast			
Back Pressure	0.500 to 3.00		MPa	
Screw Compression Ratio	2.5:1.0			
NOTE				
1.	10°C/min			

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

