

Xytron™ M6510A

Polyphenylene Sulfide
DSM Engineering Plastics

Message:

Xytron™M6510A is a polyphenylene sulfide (PPS) material, which contains 65% glass \minerals. This product is available in the Asia-Pacific region.
Xytron™The main characteristics of M6510A are: flame retardant/rated flame.

General Information			
Filler / Reinforcement	Glass \mineral, 65% filler by weight		
Physical	Nominal Value	Unit	Test Method
Density	1.97	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Transverse flow	0.40	%	ISO 294-4
Flow	0.20	%	ISO 294-4
Water Absorption (Saturation, 23°C)	0.020	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ISO 2039-2
M scale	101		ISO 2039-2
R scale	120		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2
--	21000	MPa	ISO 527-2
120°C	11400	MPa	ISO 527-2
160°C	8500	MPa	ISO 527-2
200°C	5500	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Fracture	150	MPa	ISO 527-2
Fracture, 120°C	98.0	MPa	ISO 527-2
Fracture, 160°C	70.0	MPa	ISO 527-2
Fracture, 200°C	58.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Fracture	1.0	%	ISO 527-2
Fracture, 120°C	1.6	%	ISO 527-2
Fracture, 160°C	2.2	%	ISO 527-2
Fracture, 200°C	3.8	%	ISO 527-2
Flexural Modulus			ISO 178
--	20000	MPa	ISO 178
120°C	14000	MPa	ISO 178
160°C	9100	MPa	ISO 178
200°C	7000	MPa	ISO 178

Flexural Stress	230	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	7.3	kJ/m ²	ISO 179/1eA
23°C	7.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	27	kJ/m ²	ISO 179/1eU
23°C	25	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	260	°C	ISO 75-2/A
Melting Temperature ¹	280	°C	ISO 11357-3
Linear thermal expansion coefficient			ISO 11359-2
Flow	1.5E-5	cm/cm/°C	ISO 11359-2
Flow ²	2.0E-5	cm/cm/°C	ISO 11359-2
Lateral	2.4E-5	cm/cm/°C	ISO 11359-2
Lateral ³	5.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Dielectric Strength	20	kV/mm	IEC 60243-1
Comparative Tracking Index	225	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flammability Classification			IEC 60695-11-10, -20
0.70 mm	V-0		IEC 60695-11-10, -20
1.5 mm	V-0		IEC 60695-11-10, -20
Injection	Nominal Value	Unit	
Drying Temperature	100 - 120	°C	
Drying Time	2.0 - 4.0	hr	
Rear Temperature	300 - 320	°C	
Middle Temperature	310 - 330	°C	
Front Temperature	320 - 340	°C	
Nozzle Temperature	310 - 340	°C	
Processing (Melt) Temp	310 - 340	°C	
Mold Temperature	130 - 150	°C	
Injection Rate	Moderate-Fast		
Back Pressure	3.00 - 10.0	MPa	
Screw Compression Ratio	2.5:1.0		
NOTE			
1.	10°C/min		
2.	above Tg		
3.	above Tg		

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

