Paryls® mPPSU M1150

Modified Polyphenylsulfone

Youju New Materials Co., Ltd.

Message:

PARYLS® mPPSU M1150 pellets are supplied in cartons lining aluminum foil bag, which can be stored indefinitely, provided the packaging remains undamaged.
PARYLS® mPPSU M1150 pellets absorb moisture very rapidly. Therefore, the pellets need to be dried at least 6h at 160 °C in a vacuum or dry air drier prior to processing.
Features
PARYLS® mPPSU is a modified polyphenylsufone. It is a high-heat, high performance resin formulation exhibiting very good hydrolytic stability, excellent resistance to scids and bases and good resistance to stress cracking under a broad range of chemical environments. In addition, PARYLS® mPPSU resin exhibits robust toughness and improved notch resistance compared to both PARYLS® PSU and PARYLS® PES, although slightly lower than that of neat PARYLS® PPSU. In general, the performance profile of PARYLS® mPPSU resin falls between PSU and PPSU, and also offers very good electrical properties over a broad temperature range as well as inherent flam retardancy, offers better cost-efficiency advantage also.
Natural: mPPSU M1150NT, Black: mPPSU M1150BK, White: mPPSU

General Information	
Features	Good ESCR (Stress Crack Resist.) Good electrical performance Heat resistance, high acid resistance Hydrolysis stability Flame retardancy
Appearance	White Black Natural color
Forms	Particle
Processing Method	Extrusion Injection molding

Physical	Nominal Value	Unit	Test Method
Density	1.28	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (380°C/2.16 kg)	15 - 20	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4, ISO 2577
Transverse flow	0.80	%	ISO 294-4, ISO 2577
Flow	0.70	%	ISO 294-4, ISO 2577
Water Absorption (Equilibrium, 23°C, 50% RH)	0.30	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2690	MPa	ISO 527-2
Tensile Stress	75.0	MPa	ISO 527-2

Tensile Strain (Yield)	7.0	%	ISO 527-2
Flexural Modulus	2400	MPa	ISO 178
Flexural Stress	105	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	10	kJ/m^2	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	195	°C	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity [1]	> 1.0E+15	ohms	IEC 60093
Volume Resistivity [2]	> 1.0E+15	ohms·cm	IEC 60093
Dielectric Strength	44	kV/mm	ASTM D149
Dielectric Constant			IEC 60250
100 Hz	3.80		IEC 60250
1 MHz	3.70		IEC 60250
Dissipation Factor			IEC 60250
100 Hz	1.5E-3		IEC 60250
1 MHz	8.6E-3		IEC 60250
Injection	Nominal Value	Unit	
Drying Temperature	160	°C	
Drying Time	6.0	hr	
Processing (Melt) Temp	350 - 390	°C	
Mold Temperature	140 - 160	°C	
Extrusion	Nominal Value	Unit	
Drying Temperature	160	°C	
Drying Time	6.0	hr	
Melt Temperature	350 - 390	°C	
Die Temperature	140 - 160	°C	
NOTE			
1.	100V		
2.	100V		

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


WECHAT