

SOLARENE F644

General Purpose Polystyrene
Dongbu Hannong Chemical

Message:

SOLARENE F644 is a General Purpose Polystyrene product. It is available in Asia Pacific or Europe. Primary characteristic: flame rated.

General Information			
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	7.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Water Absorption (24 hr)	0.050	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale)	70		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	29.4	MPa	ASTM D638
Tensile Elongation (Break)	40	%	ASTM D638
Flexural Modulus	2060	MPa	ASTM D790
Flexural Strength	39.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	98	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	76.0	°C	ASTM D648
Vicat Softening Temperature			
--	97.0	°C	ASTM D1525 ¹
--	88.0	°C	ASTM D1525 ²
RTI Elec			UL 746
1.59 mm	50.0	°C	
3.17 mm	50.0	°C	
RTI Imp			UL 746
1.59 mm	50.0	°C	
3.17 mm	50.0	°C	
RTI Str			UL 746
1.59 mm	50.0	°C	
3.17 mm	50.0	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+17	ohms · cm	ASTM D257
Dielectric Constant (1 MHz)	2.50		ASTM D150

Arc Resistance		ASTM D495	
1.59 mm	PLC 7		
3.17 mm	PLC 7		
Comparative Tracking Index (CTI)		UL 746	
1.59 mm	PLC 2		
3.17 mm	PLC 2		
High Amp Arc Ignition (HAI)		UL 746	
1.59 mm	PLC 4		
3.17 mm	PLC 4		
High Voltage Arc Tracking Rate (HVTR)		UL 746	
1.59 mm	PLC 2		
3.17 mm	PLC 2		
Hot-wire Ignition (HWI)		UL 746	
1.59 mm	PLC 4		
3.17 mm	PLC 2		
Flammability	Nominal Value	Unit	Test Method
Flame Rating		UL 94	
1.59 mm, ALL	V-0		
3.17 mm, ALL	V-0		
NOTE			
1.	Loading 1 (10 N)		
2.	Loading 2 (50 N)		

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

