

SOLARENE G144

General Purpose Polystyrene
Dongbu Hannong Chemical

Message:

SOLARENE G144 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	1.04	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	8.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Water Absorption (24 hr)	0.030	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale)	100		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	47.1	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	3240	MPa	ASTM D790
Flexural Strength	78.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	17	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	79.0	°C	ASTM D648
Vicat Softening Temperature			
--	96.0	°C	ASTM D1525 ¹
--	89.0	°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)	2.60		ASTM D150

Arc Resistance		ASTM D495	
1.59 mm	PLC 6		
3.17 mm	PLC 6		
Comparative Tracking Index (CTI)		UL 746	
1.59 mm	PLC 1		
3.17 mm	PLC 1		
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 0		
3.17 mm	PLC 0		
Hot-wire Ignition (HWI)		UL 746	
1.59 mm	PLC 4		
3.17 mm	PLC 3		
Flammability	Nominal Value	Unit	Test Method
Flame Rating		UL 94	
1.59 mm, ALL	HB		
3.17 mm, ALL	HB		
NOTE			
1.	Loading 1 (10 N)		
2.	Loading 2 (50 N)		

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