

Resilience™ LS11000M

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

Resilience™LS11000M is a rigid polyvinyl chloride product. It is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Resilience™LS11000M application areas include electrical/electronic applications, wires and cables and lighting equipment.

Features include:

flame retardant/rated flame

ROHS certification

high liquidity

Impact resistance

General Information			
UL YellowCard	E41877-102504018		
Features	Impact resistance, high		
	High liquidity		
	General		
Uses	Lighting Applications		
	Electrical/Electronic Applications		
	Communication Equipment		
	General		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm ³	ASTM D792
Spiral Flow	112	cm	
Molding Shrinkage - Flow	0.20 - 0.50	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	79		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2280	MPa	ASTM D638
Tensile Strength ² (Yield)	41.4	MPa	ASTM D638
Tensile Elongation ³ (Break)	35	%	ASTM D638
Flexural Modulus	2340	MPa	ASTM D790
Flexural Strength	66.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256A
-18°C, 3.18mm, injection molding	110	J/m	ASTM D256A
0°C, 3.18mm, injection molding	270	J/m	ASTM D256A
23°C, 3.18mm, injection molding	640	J/m	ASTM D256A

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.35mm	72.2	°C	ASTM D648
0.45 MPa, annealed, 6.35mm	75.0	°C	ASTM D648
1.8 MPa, unannealed, 6.35mm	68.9	°C	ASTM D648
1.8 MPa, annealed, 6.35mm	72.8	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
0.75 mm, ALL	V-0		UL 94
1.5 mm, ALL	5VA		UL 94
Injection	Nominal Value	Unit	
Processing (Melt) Temp	199 - 210	°C	
NOTE			
1.	Type 1, 51mm/min		
2.	Type 1, 51mm/min		
3.	Type 1, 51mm/min		

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