

Resilience™ LS21000M

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

Resilience™LS21000M is a rigid polyvinyl chloride product. It is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Resilience™LS21000M applications include outdoor applications, architectural applications and lighting equipment.

Features include:

flame retardant/rated flame

Impact resistance

General Information			
UL YellowCard	E41877-102513085		
Features	Impact resistance, high		
	Medium liquidity		
	General		
Uses	Lighting Applications		
	Architectural application field		
	Outdoor application		
	General		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm ³	ASTM D792
Spiral Flow	61.0	cm	
Molding Shrinkage - Flow	0.20 - 0.50	%	ASTM D955
Outdoor Suitability (All)	f1		UL 746C
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	79		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2340	MPa	ASTM D638
Tensile Strength ² (Yield)	42.7	MPa	ASTM D638
Tensile Elongation ³ (Break)	45	%	ASTM D638
Flexural Modulus	2410	MPa	ASTM D790
Flexural Strength	71.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256A
-18°C, 3.18mm, injection molding	160	J/m	ASTM D256A
0°C, 3.18mm, injection molding	370	J/m	ASTM D256A
23°C, 3.18mm, injection molding	750	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.35mm	72.8	°C	ASTM D648
0.45 MPa, annealed, 6.35mm	77.8	°C	ASTM D648
1.8 MPa, unannealed, 6.35mm	71.1	°C	ASTM D648
1.8 MPa, annealed, 6.35mm	76.1	°C	ASTM D648
Flammability	Nominal Value	Test Method	

V-0

Flame Rating (1.5 mm, ALL)	5VA	UL 94
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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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