

Resilience™ LS21000E

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

Resilience™LS21000E is a rigid polyvinyl chloride product. It is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Typical application areas are: lighting equipment.

Features include:

flame retardant/rated flame

Good UV resistance

Impact resistance

good weather resistance

General Information			
UL YellowCard	E41877-102513183		
Features	Impact resistance, good		
	Good UV resistance		
	Good weather resistance		
Uses	Lighting Applications		
Forms	Cube		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm ³	ASTM D792
PVC Cell Classification	13254		ASTM D1784
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 15 sec)	77		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2820	MPa	ASTM D638
Tensile Strength ² (Yield)	44.8	MPa	ASTM D638
Flexural Modulus	3150	MPa	ASTM D790
Flexural Strength	80.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ³ (23°C, 3.18 mm, Compression Molded)	190	J/m	ASTM D256A
Drop Impact Resistance			ASTM D4226
23°C ⁴	89.4	J/cm	ASTM D4226
23°C ⁵	> 138	J/cm	ASTM D4226
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, annealed, 3.18mm ⁶	77.5	°C	ASTM D648
0.45 MPa, annealed, 3.18mm ⁷	75.6	°C	ASTM D648
1.8 MPa, annealed, 3.18mm, molded ⁸	72.7	°C	ASTM D648
1.8 MPa, annealed, 3.18mm, molded ⁹	75.3	°C	ASTM D648

CLTE - Flow	6.5E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating (0.9 mm, ALL)	V-0		UL 94
Additional Information	Nominal Value		
Ease of Sizing	Excellent		
Physical property tests based on white 1185 lot#15141264 box 1			
Extrusion	Nominal Value	Unit	
Melt Temperature	182 - 193	°C	
NOTE			
1.	Type 1, 5.1 mm/min		
2.	Type 1, 5.1 mm/min		
3.	Test specimens prepared from compression molded milled sheet.		
4.	Procedure A, C.125 Throwing		
5.	Procedure B, C.125 Throwing		
6.	Test specimens annealed at 60 deg.C		
7.	Test specimens annealed at 50 deg.C		
8.	Test specimens annealed at 50 deg.C		
9.	Test specimens annealed at 60 deg.C		

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