

# Resilience™ LS12000E

Rigid Polyvinyl Chloride

PolyOne Corporation

## Message:

Resilience™LS12000E is a rigid polyvinyl chloride product. It can be processed by extrusion and 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

General Information			
UL YellowCard	E41877-102513244	E41877-102645996	
Features	Good UV resistance		
	General		
Uses	Lighting Applications		
	Profile		
Appearance	Clear/transparent		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.38	g/cm <sup>3</sup>	ASTM D792
PVC Cell Classification	11553		ASTM D1784
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 15 sec)	85		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus <sup>1</sup>	2870	MPa	ASTM D638
Tensile Strength <sup>2</sup> (Yield)	56.9	MPa	ASTM D638
Flexural Modulus	2920	MPa	ASTM D790
Flexural Strength	93.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	45	J/m	ASTM D256
Drop Impact Resistance			ASTM D4226
23°C <sup>3</sup>	66.3	J/cm	ASTM D4226
23°C <sup>4</sup>	175	J/cm	ASTM D4226
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, annealing, 3.18mm, injection molding)	61.2	°C	ASTM D648
CLTE - Flow	7.0E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method

Flame Rating (1.5 mm, NC)	V-0	UL 94
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.	Procedure A, C.125 Throwing	
4.	Procedure B, C.125 Throwing	

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#### 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

