

Resilience™ LS11001E

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

Resilience™LS11001E 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

Impact resistance

General Information			
UL YellowCard	E41877-102513145		
Features	Impact resistance, high		
	General		
Uses	Lighting Applications		
	Profile		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.42	g/cm ³	ASTM D792
PVC Cell Classification	13364		ASTM D1784
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 15 sec)	83		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	3300	MPa	ASTM D638
Tensile Strength ² (Yield)	44.7	MPa	ASTM D638
Flexural Modulus	3100	MPa	ASTM D790
Flexural Strength	83.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256A
Transverse flow: 23°C, 3.18mm, molded	190	J/m	ASTM D256A
Flow: 23°C, 3.18mm, molded	200	J/m	ASTM D256A
Drop Impact Resistance			ASTM D4226
23°C ³	64.9	J/cm	ASTM D4226
23°C ⁴	159	J/cm	ASTM D4226
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm)	70.0	°C	ASTM D648
CLTE - Flow	6.3E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method

Flame Rating		UL 94
0.9 mm, ALL	V-0	UL 94
1.5 mm, ALL	5VA	UL 94
Additional Information	Nominal Value	
Ease of Sizing	Good	
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.	Program A, C.125 Dart	
4.	Program B, C.125 Dart	

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