

Resilience™ LS11000E

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

Resilience™LS11000E 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. Resilience™LS11000E application areas include the automotive industry and water pipes/pipes/drinking water.

Features include:

flame retardant/rated flame

Good dimensional stability

General Information			
Features	Good dimensional stability		
	Good melt strength		
Uses	Application in Automobile Field		
	Profile		
	Decorative tape molding		
Agency Ratings	NSF 51		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.38	g/cm ³	ASTM D792
PVC Cell Classification	16344		ASTM D1784
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 15 sec)	79		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2480	MPa	ASTM D638
Tensile Strength ² (Yield)	42.1	MPa	ASTM D638
Flexural Modulus	2480	MPa	ASTM D790
Flexural Strength	75.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C, 3.18mm, injection molding	1100	J/m	ASTM D256
Transverse flow: 23°C, 3.18mm, molded	1100	J/m	ASTM D256A
Flow: 23°C, 3.18mm, molded	1000	J/m	ASTM D256A
Drop Impact Resistance			ASTM D4226
23°C ³	53.4	J/cm	ASTM D4226
23°C ⁴	53.4	J/cm	ASTM D4226
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm)	73.3	°C	ASTM D648

CLTE - Flow	6.7E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
0.75 mm, ALL	V-0		UL 94
1.9 mm, ALL	5VA		UL 94
Additional Information	Nominal Value		
Ease of Sizing	Excellent		
Note: Automotive OEM approval(s).Note: NSF listings are obtained on specific colors. Contact PolyOne for the latest listing of approved colors for this products.Note: The Cell Classification was determined using the notched Izaod test with injection molded samples.			
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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