

Resilience™ LS21150E

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

Resilience™LS21150E 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

High stiffness

good weather resistance

General Information			
Features	Low CLTE		
	Rigidity, high		
	Good weather resistance		
	Flame retardancy		
Uses	Lighting Applications		
	Profile		
Forms	Cube		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.48	g/cm ³	ASTM D792
PVC Cell Classification	12474		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	3840	MPa	ASTM D638
Tensile Strength ² (Yield)	44.3	MPa	ASTM D638
Flexural Modulus	3940	MPa	ASTM D790
Flexural Strength	85.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm, Compression Molded)	54	J/m	ASTM D256A
Drop Impact Resistance			ASTM D4226
23°C ³	58.7	J/cm	ASTM D4226
23°C ⁴	117	J/cm	ASTM D4226
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, annealed ⁵	77.0	°C	ASTM D648
0.45 MPa, annealed, 3.18mm ⁶	73.0	°C	ASTM D648

1.8 MPa, annealed ⁷	77.8	°C	ASTM D648
1.8 MPa, annealed, 3.18mm ⁸	73.0	°C	ASTM D648
CLTE - Flow	5.1E-5	cm/cm/°C	ASTM D696
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		
5.	Annealed at 60 deg.C		
6.	Annealed at 50 deg.C		
7.	Annealed at 60 deg.C		
8.	Annealed at 50 deg.C		

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