

Resilience™ LS21040M

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

Resilience™LS21040M is a rigid polyvinyl chloride product. It is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Resilience™LS21040M applications include outdoor applications, architectural applications and lighting equipment.

Features include:

high liquidity

Impact resistance

General Information			
Features	High liquidity		
	General		
	Medium impact resistance		
Uses	Lighting Applications		
	Architectural application field		
	Outdoor application		
	General		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.27	g/cm ³	ASTM D792
Spiral Flow	104	cm	
Molding Shrinkage - Flow	0.20 - 0.50	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 15 sec)	80		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	1910	MPa	ASTM D638
Tensile Strength ² (Yield)	40.0	MPa	ASTM D638
Tensile Elongation ³ (Break)	35	%	ASTM D638
Flexural Modulus	1920	MPa	ASTM D790
Flexural Strength	57.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	210	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.35mm	59.4	°C	ASTM D648
0.45 MPa, annealed, 6.35mm	67.8	°C	ASTM D648
1.8 MPa, unannealed, 6.35mm	51.7	°C	ASTM D648
1.8 MPa, annealed, 6.35mm	64.4	°C	ASTM D648

Injection	Nominal Value	Unit
Processing (Melt) Temp	199 - 210	°C
NOTE		
1.	Type 1, 51mm/min	
2.	Type 1, 51mm/min	
3.	Type 1, 51mm/min	

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