

Resilience™ LS 12000M

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

Resilience™LS 12000M is a rigid PVC product. It is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific.

Resilience™The application areas of LS 12000M include food contact applications and medical/health care.

Features include:

high liquidity

accessible food

Impact resistance

General Information			
UL YellowCard	E41877-102687123		
Features	Impact resistance, high		
	High liquidity		
	Compliance of Food Exposure		
	General		
Uses	General		
Agency Ratings	FDA Food Exposure, Not Rated		
	USP Class VI		
Appearance	Clear/transparent		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.20 - 0.50	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	82		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2410	MPa	ASTM D638
Tensile Strength ² (Yield)	44.8	MPa	ASTM D638
Tensile Elongation ³ (Break)	35	%	ASTM D638
Flexural Modulus	2410	MPa	ASTM D790
Flexural Strength	70.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256A
0°C, 3.18mm, injection molding	110	J/m	ASTM D256A
23°C, 3.18mm, injection molding	690	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.35mm	68.9	°C	ASTM D648

0.45 MPa, annealed, 6.35mm	72.8	°C	ASTM D648
1.8 MPa, unannealed, 6.35mm	67.2	°C	ASTM D648
1.8 MPa, annealed, 6.35mm	68.9	°C	ASTM D648
RTI Elec	50.0	°C	UL 746
RTI Imp	50.0	°C	UL 746
RTI	50.0	°C	UL 746
Optical	Nominal Value	Unit	Test Method
Transmittance ⁴ (3180 μm)	75.0	%	ASTM D1003
Haze (3180 μm)	4.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Processing (Melt) Temp	199 - 204	°C	
NOTE			
1.	Type 1, 51mm/min		
2.	Type 1, 51mm/min		
3.	Type 1, 51mm/min		
4.	CIE light source c		

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