



Domolen 1100 L

Domolen 1100L is a homopolymer with a conventional molecular weight distribution and is formulated with a general-purpose additive package. Domolen 1100L is designed for injection moulding applications, closures and houseware.

Food Contact Applications: This grade is in compliance with most regulations regarding food contact applications (EU, FDA). Specific information is available upon request.

Properties Typical value

Properties	Unit	Test method	Value	
Melt flow rate MFR 230 / 2. 16	g/10 min	ISO 1133	6	
Technical properties				
Tensile modulus of elasticity (v = 1mm / min)	MPa	ISO 527-2	1500	
Tensile yield stress (v = 50mm / min)	MPa	ISO 527-2	34	
Tensile yield strain (v = 50mm / min)	%	ISO 527-2	9	
Tensile strain at break (v = 50mm / min)	%	ISO 527-2	>50	
Tensile creep modulus (1000h, elongation ≤ 0.5%)	MPa	ISO 899-1	380	
Shear modulus	MPa	ISO 6721-2	750	
Charpy impact strength notched	+ 23° C - 30° C	kJ/m ² kJ/m ²	ISO 179 / 1eA ISO 179 / 1eA	3.5 1.5
Charpy impact strength unnotched	+ 23° C - 30° C	kJ/m ² kJ/m ²	ISO 179 / 1eU ISO 179 / 1eU	140 16
Izod impact strength notched	+ 23° C - 30° C	kJ/m ² kJ/m ²	ISO 180 / 1A ISO 180 / 1A	3.5 1.3
Ball indentation hardness (H 132/30 - *H 358-/30)	MPa	ISO 2039-1	74*	
Thermal properties				
Melting point, DSC	°C	ISO 3146	163	
Heat deflection temperature:				
- HDT / A (1.8 MPa)	°C	ISO 75-2	55	
- HDT / B (0.45 MPa)	°C	ISO 75-2	85	
Vicat softening temperature:				
- VST / A (10N)	°C	ISO 306	154	
- VST / B (50N)	°C	ISO 306	90	
Other properties				
Haze*	%	ASTM D 1003	60	
Density	g/cm ³	ISO 1183	0.91	
Applications				
Closures, housewares, general injection moulding				

* 1 = injection-moulded disk, thickness = 1mm

Not certified if printed

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For further information please contact: polypropylene@domo.org

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