



Domolen 1100 N

Domolen 1100N is a good flow homopolymer with a conventional molecular weight distribution and is formulated with a general-purpose additive package. Domolen 1100 N is used for general injection moulding applications

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 values)

Properties	Unit	Test method	Value	
<u>Melt flow rate</u> MFR 230 / 2. 16	g/10 min	ISO 1133	12	
<u>Technical properties</u>				
Tensile modulus of elasticity (v = 1mm/min)	MPa	ISO 527-2	1550	
Tensile yield stress (v = 50mm/min)	MPa	ISO 527-2	35	
Tensile yield strain (v = 50mm/min)	%	ISO 527-2	8	
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	800	
Charpy impact strength notched	+ 23°C - 30°C	kJ/m ² kJ/m ²	ISO 179 / 1eA ISO 179 / 1eA	3 1.5
Charpy impact strength unnotched	+ 23°C - 30°C	kJ/m ² kJ/m ²	ISO 179 / 1eU ISO 179 / 1eU	110 14
Izod impact strength notched	+ 23°C - 30°C	kJ/m ² kJ/m ²	ISO 180 / 1A ISO 180 / 1A	3 1.3
Ball indentation hardness (H 358/30)	MPa	ISO 2039-1	78	
<u>Thermal properties</u>				
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	
<u>Other properties</u>				
Haze (injection moulded disk, 1 mm thick)	%	ASTM D1003	60	
Density	g/cm ³	ISO 1183	0.91	
<u>Applications</u>				
Closures, furniture, housewares, general IM				

Last updated: 01-06-2010

For further information please contact: polypropylene@domo.org

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