



Domolen 1040 N

Domolen 1040 N is a nucleated propylene homopolymer. Domolen 1040N has been designed with a very high stiffness.

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	2000	
Tensile yield stress (v = 50mm/min)	MPa	ISO 527-2	40	
Tensile yield strain (v = 50mm/min)	%	ISO 527-2	7	
Tensile strain at break (v = 50mm/min)	%	ISO 527-2	>20	
Shear modulus	MPa	ISO 6721-2	1050	
Charpy impact strength notched	+ 23°C	kJ/m ²	ISO 179 / 1eA	3
	- 30°C	kJ/m ²	ISO 179 / 1eA	1.5
Charpy impact strength unnotched	+ 23°C	kJ/m ²	ISO 179 / 1eU	110
	- 30°C	kJ/m ²	ISO 179 / 1eU	14
Izod impact strength notched	+ 23°C	kJ/m ²	ISO 180 / 1A	2.5
	- 30°C	kJ/m ²	ISO 180 / 1A	1.3
Ball indentation hardness (H 358/30)	MPa	ISO 2039-1	93	
<u>Thermal properties</u>				
Melting point, DCS	°C	ISO 3146	165	
Heat deflection temperature:				
- HDT / A (1.8 MPa)	°C	ISO 75-2	65	
- HDT / B (0.45 MPa)	°C	ISO 75-2	110	
Vicat softening temperature:				
- VST / A (10N)	°C	ISO 306	158	
- VST / B (50N)	°C	ISO 306	102	
<u>Other properties</u>				
Haze (<i>injection moulded disk, 1 mm thick</i>)	%	ASTM D 1003	70	
Density	g/cm ³	ISO 1183	0.91	
<u>Applications</u>				
Furniture				

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For further information please contact: polypropylene@domo.org

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