



Domolen 1102 M

Domolen 1102M is a homopolymer for extrusion applications.

Domolen 1102M shows an easy processability and a good stiffness/impact balance at ambient temperature.

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	7.5	
<u>Technical properties</u>				
Tensile modulus of elasticity (v = 1mm/min)	MPa	ISO 527-2	1500	
Tensile yield stress (v = 50mm/min)	MPa	ISO 527-2	35	
Tensile yield strain (v = 50mm/min)	%	ISO 527-2	9	
Tensile strain at break (v = 50mm/min)	%	ISO 527-2	>50	
Charpy impact strength notched	+ 23°C	kJ/m ²	ISO 179 / 1eU	3.5
	- 30°C	kJ/m ²	ISO 179 / 1eU	1.6
Charpy impact strength unnotched	+ 23°C	kJ/m ²	ISO 179 / 1eA	130
	- 30°C	kJ/m ²	ISO 179 / 1eA	15
Ball indentation hardness (H 358/30)	MPa	ISO 2039-1	77	
<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>Film properties *</u>				
(Cast film, µm)				
Gloss (20°)	%	ISO 2813	130	
Haze	%	ASTM D 1003	0.5	
Tear strength (longitud./transvers.)	MPa	DIN 53455	43/39	
Elongation at break (longitud./transvers.)	%	DIN 53455	670/700	
Flexural modulus (longitud./transvers.)	MPa	DIN 53121	670/650	
Dart drop impact strength F50	g	ASTM D1709	330	
Coefficient of sliding friction	-	DIN 53375	>0.5	
<u>Other properties</u>				
Density	g/cm ³	ISO 1183	0.91	
*) The values were determined using film made under our own standardized conditions. When making comparisons with films produced under other conditions, the strong relationship between the film properties and manufacturing conditions must always be taken into account.				
<u>Applications</u>				
Cast films, OPP films, Thermoformed parts, Tape yarns, Monofilaments, Strapping				

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For further information please contact: polypropylene@domo.org

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