

Data Sheet

Polypropylene 1102 K



1102 K is a propylene homopolymer for extrusion and thermoforming applications. Extremely low water-carry-over is a special advantage for the production of tapes.

Properties (Typical values)

Properties	Unit	Test method	Value
<u>Melt flow rate</u>			
MFR 230/2.16	g/10 min	ISO 1133	3.4
<u>Mechanical properties</u>			
Tensile modulus of elasticity (v = 1 mm/min)	MPa	ISO 527-2	1500
Tensile yield stress (v = 50 mm/min)	MPa	ISO 527-2	34
Tensile yield strain (v = 50 mm/min)	%	ISO 527-2	9
Tensile strain at break (v = 50 mm/min)	%	ISO 527-2	> 50
Charpy impact strength unnotched	+ 23 °C	kJ/m ²	190
	- 30 °C	kJ/m ²	16.5
Charpy impact strength notched	+ 23 °C	kJ/m ²	4.0
	- 30 °C	kJ/m ²	1.7
Ball indentation hardness (H 132/30 - * H 358/30)	MPa	ISO 2039-1	74*
<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/A50 (10 N)	°C	ISO 306	154
- VST/B50 (50 N)	°C	ISO 306	90
<u>Other properties</u>			
Density	g/cm ³	ISO 1183	0.91
<u>Applications</u>			
Thermoformed parts, Tape yarns, Monofilaments, Strapping			

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