

Technical Data

Product Description

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

Applications

Raffia, Thermoformed parts, Tape yarns, monofilament, strapping.

Regulatory Information:

The Grade Advanced-PP 1102K and additives incorporated comply with United States FDA Regulation 21CFR 177.1520 Olefin Polymers and European Regulation (EU) 10/2011 (and its amendments). Specific information is available upon request.

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (English)
Availability	• Africa & Middle East • Asia Pacific
Features	• Homopolymer • Low Water Carryover
Uses	• Monofilaments • Tape • Strapping • Yarn
Agency Ratings	• EU 10/2011 • FDA 21 CFR 177.1520
Processing Method	• Extrusion • Thermoforming

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.910 g/cm ³	0.910 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.4 g/10 min	3.4 g/10 min	ISO 1133

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	218000 psi	1500 MPa	ISO 527-2/1
Tensile Stress (Yield)	4930 psi	34.0 MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	9.0 %	9.0 %	
Break	> 50 %	> 50 %	

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	1.9 ft·lb/in ²	4.0 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength 73°F (23°C)	90 ft·lb/in ²	190 kJ/m ²	ISO 179/1eU

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness (H 358/30)	10700 psi	74.0 MPa	ISO 2039-1

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed	185 °F	85.0 °C	ISO 75-2/B
Vicat Softening Temperature	309 °F	154 °C	ISO 306/A50
Melting Temperature (DSC)	325 °F	163 °C	ISO 3146

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

