KANALPLAST

TECHNICAL SHEET

1. Product identification

Polypropylene

2. Chemical description

Polypropylene copolymer

3. Physical properties

Vapour absorption:	0.02%
Specific gravity (20° C):	0.905 g/m²

4. Mechanical properties

Tensile strength:	38 MPa	
Elongation at break:	800%	
Flexural modulus:	1250 MPa	
Impact strength Charpy:	80 KJ/m²	
Shore D hardness:	66 KJ/m²	
Compression stress at maximus:	2.0 mm/350 g/m²	3.7 N/cm²
	3.0 mm/650 g/m²	5.5 N/cm²
	4.5 mm/1000 g/m²	14.4 N7cm²

5. Thermal properties

Dilation coefficient:	0.18 mm/m°C
Specific Heat:	1.68 J/g°C
Heat deflection temp. (0.46 MPa):	78°C
Heat deflection temp. (1.82 MPa):	52°C
Vicat softening point (1 KG) (10N):	148°C
Vicat softening point (5 KG) (50N):	78°C

6. Optical properties

Light transmission:	
2.0 mm/400 g/m²	58%
3.0 mm/500 g/m²	51%
4.0 mm/1000 g/m²	37%

7. Electrical properties

Surface resistivity:	ca. 1013 Ω
Dielectric constant (at 1 MHz):	2.25 Ω
Dissipation factor (tg δ at 1MHz):	<5 x 10-4 Ω
Dielectric strength (599V/sec):	70 kV/mm

J&M handel aps

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KANALPLAST

TECHNICAL SHEET

MATERIAL SAFETY DATA SAFETY

1. Product identification

Polypropylene

2. Physical state and appearance

Appearance:	Twin wall sheet
Thickness:	1.5-14 mm
Weight:	200-2000 g/m^2
Physical state (20° C):	solid, odourless

3. Physical properties

Melting point:	163° - 168°C
Softening range:	145° - 155°C
Decompostion temperature:	>300°C

4. Handling precautions

Handling:	It is a polymeric substance with high molecular weight and its handling involves no risk for the health of operators.
Inhalation:	No emission of dangerous fumes at room temperature.
Ingestion:	The resin itself is considered to be physiologically inert, but certain additives could be harmful. Avoid inhalation.

5. Fire and explosion hazard information

Auto ignition temperature:	>360°C
Combustion properties:	H^2O and CO^2 will be formed
Fire extinguishing agents:	Water, fog, foam, CO^2, powder, etc.

6. Toxicological information

It is biologically inert and does not harm the environment.

7. Disposal information

Scrap materials can be disposed off at approved landfill tips or can be disposed off by incineration under approved conditions. Advice on the preferred method should be obtained by the local authorities or waste disposal officers.

8. Re-use information

It can easily be recycled with other PP-based products.

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