



CHANNEL

CAR LOAD

**APPLICATIONS OF PP**

Residencial and condominium areas
 Pedestrian areas and/ or cycle lanes
 Sports facilities
 Greenhouses
 Green areas

**TECHNICAL DATA SHEET FOR POLYPROPYLENE CHANNEL**

CODE	MATERIAL	EXTERNAL DIMENSIONS LxWxH (mm)
M 04	POLYPROPYLENE	1000x150x105

TABLE 1

Dependence of chemical, physical and mechanical properties of
 POLYOLEFINS, on density and molecular structure

STRUCTURAL PARAMETERS	DENSITY g/cm ³		MOLECULAR STRUCTURE	
Threshold values	0,900	0,970	considerably branched	linear
Crystallisation degree	+/-	+/+	-/-	+/+
Fluidity Index	°	°	°	°
Workability	+	-	+	-
Tensile strength and bending strength	→		→	
Elongation at break	←		←	
Rigidity and hardness	→		→	
Shock resistance	←		→	
Resistance to stress-induced cracks	→		→	
Crystal melting field and heat deformation temperature	→		→	
Cold breaking temperature	→		→	
Chemical resistance and resistance to solvents	→		→	
Resistance to gas and vapour diffusion	→		→	

+ -: high or low values °: no special effects → : positive effect increasing in the direction of the arrow

TABLE 1

Summary of main characteristics of POLYOLEFINS

STRUCTURAL PARAMETERS	UNIT	LD-PE	PE-HD	PP-H	PP-R
Density	g/cm ³	0,916-0,920	0,940-0,960	0,900-0,915	0,895-0,900
Elasticity modulus E (DIN 53457)	MPa	200-400	600-1400	1300-1800	600-1200
Tensile strength (DIN 53455)	N/mm ²	8/23	18/35	21/37	21/37
Elongation (DIN 53455)	%	C.a. 20	C.a. 8-12	C.a. 8-18	C.a. 12-18
Melting point	°C	105-118	126-135	162-168	135-155
Thermal expansion coefficient	mm/°C	20x12 ⁻⁵	20x12 ⁻⁵	15x12 ⁻⁵	15x12 ⁻⁵
Dielectric constant at 100 Hz	—	2,3	2,4	2,3	2,3
Water absorption at 23°C	%	< 0,05	< 0,05	< 0,20	< 0,20

1. For drainage purposes use the drain grate with outlet kit (available in two versions ø100 and ø110)

N.B. Waterproofing in order to ensure the channels are waterproof, a bituminous adhesive sealant should be used. Heat-sealing the channel joints make sure there will be no leakage through said joints for a very long time. For further info, please contact MANTRA DRAIN SOLUTIONS.

N.B. Sizes and weights are subject to usual manufacturing tolerance values.

