



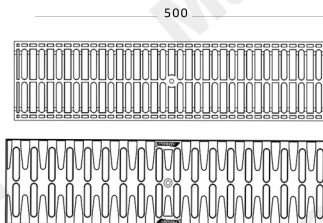
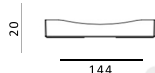
GRATINGS

TYPE C250
PP
HDPE



APPLICATIONS OF PP/HDPE

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



TECHNICAL DATA SHEET FOR PP/HDPE SLOTTED GRATING 7MM

| CODE | PRICE ₹ | MATERIAL | DIMENSIONS LxH (mm) | WEIGHT | DRAINAGE SURFACE (cm) | OPENINGS F1xF2(mm) | FIXING SYSTEM protrusion4 |
|------|------------|----------|------------------------|---------|-----------------------------|-----------------------|------------------------------|
| M06 | | PP/HDPE | 500x144x20 | 0.840KG | 16.05 | 54.0 x 7.0 | |

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.

