



RIGIDEX[®] HD5450UA

Product Technical Information

High density polyethylene copolymer

RIGIDEX[®] HD5450UA is an ultra-violet light stabilised high density polyethylene copolymer grade. It has been specially developed for injection moulding of heavy duty articles for outdoor use.

Benefits & Features

- Good rigidity
- High impact resistance, especially at low temperatures
- Good processing
- Very good weathering resistance

Applications

- Large dustbins and pails
- Pallet boxes

| Properties | Conditions | Test Methods | Values | Units |
|---|--------------|--------------|--------|-------------------|
| Rheological | | | | |
| Melt Flow Rate | 190°C/2.16kg | ISO 1133-1 | 4.7 | g/10min |
| Physical | | | | |
| Density ISO 17855-1 | 23°C | ISO 1183-1 | 953.5 | kg/m ³ |
| Mechanical* | | | | |
| Tensile Modulus | 23°C | ISO 527 | 1000 | MPa |
| Tensile Strength at Yield | 23°C | ISO 527-1,-2 | 26 | MPa |
| Impact Strength, Charpy | | ISO 180/A | 5 | kJ/m ² |
| Data should not be used for specification work | | | | |

Storage

The product should be stored in a dry and dust free environment at temperature below 50°C. Exposure to direct sunlight should be avoided as this may lead to product deterioration.

It is advised to process the product within maximum one year after delivery.