

# POLYMER SM

## Polyethylene HDPE TR-455 Natural

### DESCRIPTION:

**HDPE TR-455 natural** is high density polyethylene with high molecular weight and designed for pipe manufacture. This granulate combines easy processing with very good mechanical properties, an excellent resistance to UV radiation and thermal ageing, and very high environmental stress cracking resistance, which gives pipes a maximum useful life.

### PROCESSING RECOMMENDATIONS:

Processing temperature: 195 – 220 °C for extrusion

### PROPERTIES:

PROPERTY	TEST METHOD	UNIT	NOMINAL VALUE
MELT FLOW RATE	EN ISO 1133-1 190°C / 5 kg	g/10 min	0.50
DENSITY	EN ISO 1183-2	kg/m <sup>3</sup>	945
TENSILE STRENGTH AT BREAK	EN ISO 527-2	MPa	30
TENSILE STRENGTH AT YIELD	EN ISO 527-2	MPa	22
ELONGATION AT BREAK	EN ISO 527-2	%	800
IZOD IMPACT STRENGTH	EN ISO 180	kJ/m <sup>2</sup>	15
SHORE D HARDNESS	EN ISO 868	Shore D	64
ESC RESISTANCE , F <sub>50</sub>	EN ISO 22088-3 condition B	h	5000
FLEXURAL MODULUS	EN ISO 178	MPa	900

*The values in this review are characteristic and are provided for guidance purposes only.*

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## **APPLICATION:**

**HDPE TR-455 natural** is recommended for extrusion of drainage and sewerage pipes with larger diameter.

## **STORAGE:**

Polymer pellets are packed in LDPE bags, each bag weighs 25 kg. Bags are arranged on pallets and wrapped in stretch foil. One pallet has total polymer weight of 1250 kg.

Polyethylene is combustible material, therefore fire prevention measures in warehouses should be applied. Keep the polymer protected from harmful influences of heat, direct sunlight and high atmospheric humidity during storage.

If resin is stored under unfavourable conditions of large fluctuation in ambient temperature and atmospheric humidity, atmospheric moisture can condense inside the packaging. In such case, it is recommended to dry pellets before use.

The producer has no responsibility for any damage caused with the inappropriate storage.

## **REACH:**

The applying of the existing standards ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007 and ISO 50001:2011, follows completely the highest standards by which there are regulated environmental protection and human health and safety protection and herewith it expresses its intention to meet all the requirements which are prescribed by REACH regulation.

Registration of all the substances of potential export interest has been made with European Agency for Chemicals in Helsinki, in accordance with the prescribed deadlines, therefore in this way it enables further undisturbed placement and sale products without any limits at EU Market.

## **RECYCLING:**

Polyethylene is a material suitable for recycling.

The waste, that could appear during processing, should be kept clean before new usage through direct recycling.

## **CONTACT:**

### **Sale:**

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