

# TASNEE NPP Black

# POLYETHYLENE

## DESCRIPTION

**TASNEE NPP Black** is a High Density Polyethylene, black colored resin. It has high melt viscosity, it is an appropriate resin for extrusion of non pressure pipes.

## TYPICAL APPLICATIONS:

Non pressure applications: sheet pipe and sewage pipe.

## Typical Properties

Physical	Method	Unit	Value
Density	ISO 1183	g / cm <sup>3</sup>	0.960
Melt Flow Rate (190°C/5.0kg)	ISO 1133	g / 10 min	0.60
Melt Flow Rate (190°C/21.6kg)	ISO 1133	g / 10 min	10.0

Mechanical	Method	Unit	Value
Tensile Modulus	ISO 527-1,2	MPa	1100
Tensile Stress @ Yield	ISO 527-1,2	MPa	25
Tensile Strain @ Yield	ISO 527-1,2	%	9
Carbon Black Content	ISO 6964	%	2.25

## Recommended Temperatures:

Melt temperature: 190-220 °C, Injection moulding temperatures: 200-280 °C

## Note :

Typical properties; not to be construed as specifications

## **Safety**

The material is manufactured to the highest standards but, special requirements apply to certain applications such as food contact end-use and direct medical use. For specific information on regulatory compliance contact your local representative. Workers should be protected from the possibility of skin or eye contact with molten polymer. Safety glasses are suggested as a minimum precaution to prevent mechanical or thermal injury to the eyes.

Molten polymer may be degraded if it is exposed to air during any of the processing and off-line operations. The products of degradation have an unpleasant odour. In higher concentrations they may cause irritation of the mucus membranes. Fabrication areas should be ventilated to carry away fumes or vapours. Legislation on the control of emissions and pollution prevention must be observed. If the principles of sound manufacturing practice are adhered to and the place of work is well ventilated, no health hazards in processing the material have been reported.

The material will burn when supplied with excess heat and oxygen. It should be handled and stored away from contact with direct flames and/or ignition sources. In burning the material generates considerable heat and may release a dense black smoke. Minor fires can be extinguished by water, developed fires should be extinguished by heavy foams forming an aqueous or polymeric film. For further information about safety in handling and processing please refer to the Material Safety Data Sheet (MSDS).

## **Storage**

The material is packed in 25 kg bags or in bulk containers protecting it from contamination. Storage times of natural materials longer than 6 months may have a negative influence on the quality of the final product (for example the brightness). It is generally recommended to convert all materials latest within 6 months of production.

The material is subjected to degradation by ultra-violet radiation or by high storage temperatures. Therefore the material must be protected from direct sunlight, temperatures above 40°C and high atmospheric humidity during storage.

Further unfavorable storage conditions are large fluctuations in ambient temperature and high atmospheric humidity. These conditions may lead to moisture condensing inside the packaging. Under these circumstances, it is recommended to dry the material before use. Unfavorable storage conditions may also intensify the material's slight characteristic odor.

Due the hygroscopic character of the carbon black pigments, black colored materials may pick up moisture even under appropriate storage conditions. If this is the case it is recommended to dry the material before processing. After a storage period of more than 3 months drying of such material is recommended as standard practice.

## **Disclaimer**

"The information in this publication without prejudice, and is based on our current knowledge and experience and on a limited number of tests".

"In view of the many factors that may affect processing and application, these data do not relieve the receiver of this information from the responsibility of carrying out their own tests and experiments; neither do they imply any legally binding assurance of certain properties or of suitability for a specific purpose of the products made with or on the basis of the information in this publication".