

Hostalen PP N2122

Polypropylene, Impact Copolymer

Product Description

Hostalen PP N2122 is a natural polypropylen copolymer with an exceptional mechanical properties balance.

The product has been specially designed for injection moulding for sewage and underground drainage systems and related products. The product provides high stiffness, excellent impact resistance at room temperature and in particular at sub-zero temperature in combination with long term properties. It is not intended for medical and pharmaceutical applications.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe
Processing Method	Injection Molding
Features	Antioxidant, Impact Copolymer, High Heat Resistance , Nucleated
Typical Customer Applications	Pipes, Other Industrial, Soil & Waste Pipe, Drainage Pipe, Fittings

Typical Properties	Method	Value Unit
Physical		
Density	ISO 1183	0.90 g/cm ³
Melt flow rate (MFR) (230°C/2.16kg)	ISO 1133	2.0 g/10 min
Mechanical		
Tensile Stress at Break (23 °C)	ISO 527-1, -2	20 MPa
Tensile Stress at Yield (23 °C)	ISO 527-1, -2	25 MPa
Flexural modulus	ISO 178	
(23 °C, v = 0.05 mm/min, Secant)		1600 MPa
<i>Note: after 24 hours</i>		
(23 °C, v = 0.05 mm/min, Secant)		1650 MPa
<i>Note: after 48 hours</i>		
(23 °C, v = 0.05 mm/min, Secant)		1750 MPa
<i>Note: after 7 days</i>		
Impact		
Notched izod impact strength	ISO 180	
(23 °C)		20 kJ/m ²
(0 °C)		8 kJ/m ²
(- 20 °C)		7 kJ/m ²
Thermal		
Oxidation induction time (OIT) (210°C)	EN 728	25 min

Additional Properties

Processing:

The recommended conditions will depend on the type of equipment used and the size and wall thickness of the pipe or profile required.

Recommended melt temperatures: 200-230 °C

Recommended injection moulding temperatures: 200-280 °C.

Notes

Typical properties; not to be construed as specifications.

Further Information

Conveying:

Conveying equipment should be designed to prevent production and accumulation of fines and dust particles that may be contained to a small extent in polymer materials. These particles can under certain conditions pose an explosion hazard. We recommend the conveying system used is equipped with adequate filters, is operated and maintained so that no leak develops and adequate electrical grounding exists at all times.

Health and Safety:

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 generate 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 from the date of delivery.

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 unfavourable 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. Unfavourable storage conditions may also intensify the material's slight characteristic odour.

Due to the hygroscopic character of the carbon black pigments, black coloured 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.

Copyright 2010 Basell Service Company B.V. All rights reserved.

For the contact details of the LyondellBasell company selling this product in your country, please visit <http://www.lyondellbasell.com/>.

Before using a LyondellBasell product, customers and other users should make their own independent

determination that the product is suitable for the intended use. They should also ensure that they can use the LyondellBasell product safely and legally. This document does not constitute a warranty, express or implied, including a warranty of merchantability or fitness for a particular purpose. In addition, no immunity under LyondellBasell intellectual property or third parties' intellectual property rights shall be implied from this document. No one is authorized to make any warranties, issue any immunities or assume any liabilities on behalf of LyondellBasell except in a writing signed by an authorized LyondellBasell employee. Unless otherwise agreed in writing, the exclusive remedy for all claims is replacement of the product or refund of the purchase price at the option of LyondellBasell, and in no event shall LyondellBasell be liable for special, consequential, incidental, punitive or exemplary damages.

CRP, Adflex, Adstif, Adsyl, Akoalit, Akoafloor, Avant, Catalloy, Clyrell, Dexflex, Entegrity, Get in touch with, Hifax, Higran, Histif, Hostacom, Hostalen, Indure, Koattro, LIPP, Lucalen, Luflexen, Lupocomp, Lupolen, Lupolex, Luposim, Lupo stress, Lupotech, Metocene, Moplen, Pristene, Purell, Pro-fax, Sequel, Sholybox, Softell, Spherilene, Spheripol, Spherizone, Stretchene, Toppyl and *Valtec* are trademarks owned or used by LyondellBasell group companies.

Adflex, Adstif, Adsyl, Akoalit, Akoafloor, Avant, Clyrell, CRP, Dexflex, Hifax, Hostacom, Hostalen, Indure, Koattro, Lucalen, Moplen, Purell, Pro-fax, Sequel, Softell, Spheripol, Spherizone and *Toppyl* are registered in the U.S. Patent and Trademark Office.

Unless specifically indicated, the grades mentioned are not suitable for applications in the pharmaceutical/medical sector.

Release Date: 29 Jan 2010