Technical Data Sheet

Hostalen PP H7350FLS 303064

Polypropylene, Homopolymer

Product Description

Hostalen PP H7350FLS 303064 is a polypropylene homopolymer, grey colored similar to RAL 7037 (dusty grey). The product contains a bromine flame retardant and it is not halogen free.
Semifinished products fulfil burning-class B1 according to DIN 4102. EU burning class (construction products) according to EN 13501-1: Ed2. In UL 94-burning test flammability class V-2 can be achieved. The product is not UL-listed. (UL = Underwriters Laboratories)
The product requires special processing conditions:
The appropriate conditions will depend on the type of equipment used and the size and wall thickness of the pipe or profile required.
Recommended extrusion conditions:
The barrel temperatures should be set on the right level to get a melt temperature of 190-210°C (measured with a needle pyrometer). For extruders with a grooved feed bushing a decreasing temperature profile is recommended: e.g. 210 / 200 / 190 / 190°C.
With the flame retardant grade *Hostalen* PP H7350FLS 303064 the melt temperature should be kept below 230°C, to avoid degradation of the bromine component of the flame retardant system (measured with a needle pyrometer). Higher melt temperature, excessive shear and long residence time at high melt temperature lead to the formation of hydrobromic acid (HBr), which is corrosive versus steel surfaces. Corrosion protected screws and tools (e.g. chromium plated) are recommended. The extruder and die head should be purged with natural PP resin during longer breaks or at the end of the production.

Hostalen PP H7350FLS 303064 is not allowed for food contact applications.

For further details about the suitable applications for this material please contact LyondellBasell.

Regulatory Status

For regulatory compliance information, see *Hostalen* PP H7350FLS 303064 Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

This grade is not intended for medical and pharmaceutical applications.

Status	Commercial: Active
Availability	Europe
Application	Industrial
Market	Industrial, Building & Construction; Pipe
Processing Method	Injection Molding; Pipe
Attribute	Flame Retardant; Homopolymer

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate			
(230 °C/2.16 kg)	0.4	g/10 min	ISO 1133-1
(230 °C/5.0 kg)	2	g/10 min	ISO 1133-1
(190 °C/5.0 kg)	0.8	g/10 min	ISO 1133-1
Density	0.924	g/cm³	ISO 1183-1
Mechanical			

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Tensile Modulus, (23 °C)	1500	MPa	ISO 527-1, -2
Tensile Stress at Yield	35.5	MPa	ISO 527-1, -2
Tensile Strain at Yield	11	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C)	18	kJ/m²	ISO 179
(0 °C)	5	kJ/m²	ISO 179
Thermal			
Vicat Softening Temperature			
(A50)	158	°C	ISO 306
(B50)	93	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	104	°C	ISO 75B-1, -2
DSC Melting Point	161	°C	DSC
Flammable			
Flame Rating - UL, (1.5 mm)	V-2		UL 94

Notes

These are typical property values not to be construed as specification limits.

Further Information

Health and Safety:

The resin is manufactured to the highest standards, but special requirements apply to certain applications such as food end-use contact 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 minimal 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 may have an unpleasant odor. 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 should be observed.

The resin 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. While burning, the resin contributes high heat and may generate a dense black smoke.

Recycled resins may have previously been used as packaging for, or may have otherwise been in contact with, hazardous goods. Converters are responsible for taking all necessary precautions to ensure that recycled resins are safe for continued use.

For further information about safety in handling and processing please refer to the Safety Data Sheet.

Conveying:

Conveying equipment should be designed to prevent production and accumulation of fines and dust particles that are contained in polymer resins. These particles can under certain conditions pose an explosion hazard. Conveying systems should be grounded, equipped with adequate filters and regularly inspected for leaks.

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Storage:
The resin is packed in 25 kg bags, octabins or bulk containers protecting it from contamination. If it is stored under certain conditions, i. e. if there are large fluctuations in ambient temperature and the atmospheric humidity is high, moisture may condense inside the packaging. Under these circumstances, it is recommended to dry the resin before use. Unfavorable storage conditions may also intensify the resin's slight characteristic odor.

Resin should be protected from direct sunlight, temperatures above 40°C and high atmospheric humidity during storage. Higher storage temperatures may reduce the storage time.

The information submitted is based on our current knowledge and experience. In view of the many factors that may affect processing and application, these data do not relieve processors of 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. This information does not remove the obligation of the customer to inspect the material on arrival and notify us of any faults immediately. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed.

Company Information

For further information regarding the LyondellBasell company, please visit http://www.lyb.com/.

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