

Hostalen PP H7350FLS 303064

Polypropylene, Homopolymer

Product Description

Hostalen PP H7350FLS 303064 is a polypropylene homopolymer, grey coloured similar to RAL 7037 (Dusty Grey). The product contains a bromine flame retardant. It is not halogen free. Semifinished products fulfil burning-class B1 according to DIN 4102. In UL 94-burning test V-2 can be achieved. The product is no UL-listed.

EU burning class (construction products) according to EN 13501-1:Ed2

The product requires special processing conditions: Details see under "Processing".

For regulatory information please refer to *Hostalen PP H7350FLS 303064* Product Stewardship Bulletin (PSB).

Hostalen PP H7350FLS 303064 is not intended for medical and pharmaceutical applications.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe
Processing Methods	Extrusion Pipe Sheet and Semi Finished Products
Features	Flame Retardant, Homopolymer
Typical Customer Applications	Industrial

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.924	g/cm ³
Melt flow rate (MFR)	ISO 1133		
(230°C/2.16Kg)		0.4	g/10 min
(190°C/5.0kg)		0.8	g/10 min
(230°C/5.0kg)		2	g/10 min
Mechanical			
Tensile Modulus (23 °C, v = 1 mm/min, Secant)	ISO 527-1, -2	1500	MPa
Tensile Stress at Yield (23 °C, v = 50 mm/min)	ISO 527-1, -2	35.5	MPa
Tensile Strain at Yield (23 °C, v = 50 mm/min)	ISO 527-1, -2	11	%
Impact			
Charpy notched impact strength	ISO 179		
(23 °C)		18	kJ/m ²
(0 °C)		5	kJ/m ²
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	104	°C
Vicat softening temperature	ISO 306		
(VST/A/50 K/h (10 N))		158	°C
(VST/B/50 K/h (50 N))		93	°C
Melting Temperature	ISO 3146	161	°C
Flammable			
Flame rating - UL (1.57 mm)	UL 94	V-2	



Additional Properties

Processing:

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.

Notes

Typical properties; not to be construed as specifications.

