

## Description

TPSeal® PP FR11 is an intumescent halogen-free flame-retardant Specialty Compound and is based on metallocene Polypropylene (PP).

TPSeal® PP FR11 is intended for the manufacture of rotomoulded items and available in natural white, in pellets or in powder.

## Main Characteristics

- ✓ Suitable for multi-layer application.
- ✓ Flame-retardant properties thanks to halogen-free technology.

## Application

Structural parts, design (furniture), building parts, ...

## Properties

Property	Method	Unit	Typical value (*)
Melt Flow Rate (230°C-2.16kg)	ISO 1133	g/10min	11
Melting Temperature	ISO 11357	°C	137
UL94-V	NF EN 60695	-	V0 @3mm
Glow Wire Flammability Index	IEC 695-2-1	°C	850
Heat Release MARHE (1)	ISO 5660-1	kW/m <sup>2</sup>	45
Smoke Opacity Ds(4) (2)	ISO 5659-2	-	32
Smoke Opacity VOF4 (2)	ISO 5659-2	-	83
Smoke Toxicity CITg 4minutes (2)	ISO 5659-2	-	0.02
Smoke Toxicity CITg 8minutes (2)	ISO 5659-2	-	0.17
Vertical Critical Flux at Extinguishment	ISO 5658-2	kW/m <sup>2</sup>	8

(\*) Data not intended for specification purposes

(1) Thickness 5mm, Heat Flux 50kW/m<sup>2</sup>

(2) Thickness 5mm, Heat Flux 25kW/m<sup>2</sup>

## Processing conditions

It is recommended to keep product dry prior use for production.

## Handling and storage

Please refer to the material safety data sheet (MSDS) for handling and storage information. It is advisable to convert the product within one year after delivery provided storage conditions are used as given in the MSDS of our product.

MSDS may be obtained from the website: <http://www.polymers.total.com/>

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