



Refining & Chemicals
Polymers

TPSeal® PE FR02

Technical Data Sheet
FR Specialty Compounds
Rotational Moulding
Produced in Europe

Description

TPSeal® PE FR02 is an intumescent halogen-free flame-retardant Specialty Compound and is based on metallocene Polyethylene (PE).

TPSeal® PE FR02 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 (190°C-2.16kg)	ISO 1133/D	g/10min	2
Melting Temperature	ISO 11357	°C	120
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 ²	105
Smoke Opacity Ds(4) (2)	ISO 5659-2	-	76
Smoke Opacity VOF4 (2)	ISO 5659-2	-	152
Smoke Toxicity CITg 4minutes (2)	ISO 5659-2	-	0.02
Smoke Toxicity CITg 8minutes (2)	ISO 5659-2	-	0.21
Vertical Critical Flux at Extinguishment	ISO 5658-2	kW/m ²	10

(*) Data not intended for specification purposes

(1) Thickness 5mm, Heat Flux 50kW/m²

(2) Thickness 5mm, Heat Flux 25kW/m²

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/>

Information contained in this publication is true and accurate at the time of publication and to the best of our knowledge. The nominal values stated herein are obtained using laboratory test specimens. Before using one of the products mentioned herein, customers and other users should take all care in determining the suitability of such product for the intended use. Unless specifically indicated, the products mentioned herein are not suitable for applications in the pharmaceutical or medical sector. The Companies within Total Refining & Chemicals do not accept any liability whatsoever arising from the use of this information or the use, application or processing of any product described herein. No information contained in this publication can be considered as a suggestion to infringe patents. The Companies disclaim any liability that may be claimed for infringement or alleged infringement of patents.