

General info & uses

Roflam OA20 is an oligomeric phosphorus-based flame retardant designed for flexible polyurethane foams requiring halogen-free solutions. Small doses of Roflam OA20 slow the further development of flames, or even self-extinguish, in compliance with the most

common vehicle fire safety standards ISO 3795 and FMVSS 302. Roflam OA20 is also considered as a highly efficient flame retardant, that contributes to excellent fire performance in other polyurethane materials.

Key features

- Halogen free
- High phosphorus content
- Liquid form
- No scorching in foams
- Low VOC emission
- Relatively low viscosity







Typical properties

Parameters	Values		
Appearance	transparent liquid		
Viscosity	< 2000 mPa·s		
Acid number	< 2 mgKOH/g		
Hydroxyl number	< 20 mgKOH/g		
Phosphorus content	15-20%		



Performance in polyether polyol based PU foams

Form. 1	Form. 2		Form. 3	
Without flame retardant	Roflam OA20	2 php	Roflam OA20	3 php

Foam properties	Form. 1	Form. 2	Form. 3
Fire test FMVSS 302/ DIN 75200 / ISO 3795	В	Self-extinguishing SE/NBR	Self-extinguishing SE
Density	28-30 kg/m³	28-30 kg/m³	28-30 kg/m³
Hardness (CV 40)	3-4 kPa	3-4 kPa	3-4 kPa
Resilience (ball rebound test)	45%	45%	45%
Compression set (50%, dry)	< 5%	< 5%	< 5%
Air flow	1-2 dm³/s	1-2 dm³/s	1-2 dm³/s

php	
100	
3.0-3.5	
1.0-1.5	
0.1-0.3	
2-3	
0.2-0.4	
104	

 $^{\ ^{*}\,}depending\,on\,flam mability\,requirements$





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The information in the catalogue is believed to be accurate and compiled to the best of our knowledge; however, it should be considered as introductory only. Detailed information about our products is available in TDS and MSDS.

The suggestions for product applications are based on our best knowledge.

The responsibility for the use of products in conformity or otherwise with the suggested application, and for determining product suitability for the user's own purposes rests with the user.

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