

COMPLIANCE LETTER ISO 3795 BURNING RATE



PRODUCT(S) :

HYLON- RAVAMID

SICOFLEX- RESINEX ABS

POLYFAST

SICOKLAR-TRISTAR-RESINEX PC

MABLEX- MABLEX ECO - RESINEX PC/ABS

MAFILL-SCOLEFIN-VERPLEN-RAVAPLEN

SICOBLEND

SICOSTIROLO

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To whom it may concern

This is a horizontal burning test, based on the test method and conditions of **ISO 3795**.

Different automotive OEM's standards refer to ISO3795 method.

The test requires 5 specimens measuring 356 x 100 mm at the thickness in use. Each specimen is mounted in the test in a horizontal position and a small flame (9 mm diameter) from a Bunsen burner is applied for 15 seconds. The time for the flame to propagate 254 mm (10 ") is determined. The result is expressed as horizontal burning speed in mm/min. It is important to note that this standard does *not* contain any explicit requirements or rating systems;

It is left to legislation or OEM specifications to impose a limit based on the horizontal burning speed. They also define one or more limits and are to be performed on parts and/or assemblies, *and not for materials*. It is the responsibility of the component manufacturer to determine the flammability performance of molded components or assemblies. Because flammability results are dependent upon part thickness and geometry, it is not possible for Ravago to certify a material according to one of these standards.

Ravago has performed tests according to ISO 3795 on injection molded plates (3mm thickness) to determine indicative values for material selection purposes (see below).

Declaration

OEM Standards based on ISO 3795

Standard	Scope	Limit burning speed [mm/min]	Comment
FMVSS 302	USA	101.6	
VW TL1010	Volkswagen	100	
GM 60261	General Motors	100	average + 3 * standard deviation should be less than limit as well
D45 1333 / --H	Renault	100	Standard also has classification scheme
UTAC ST 18-502-1	Bus interiors	100	Standard also has classification scheme
EC/95/28, Annex IV	Bus interiors	100	Standard also has classification scheme

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Standard	Scope	Limit burning speed [mm/min]	Comment
104-0001	Volvo	80	≤ 3 specimens ≤ 96 mm/min and an average ≤ 80 mm/min
GB 8410	China	100	Standard also has classification scheme
GS 97038	BMW	100	Two test if burn rate is up 75mm/min Four test if burn rate exceed 75mm/min
PTL 8501	Porsche	100	

Polymer	Brand name	Grades	Thickenss [mm]	Burning rate [mm/min]
PA	Hylon-Ravamid	all	3,2	< 80
PA-ABS	Sicoblend	all	3,2	< 80
ABS	Sicoflex- Resinex ABS	all	3,2	< 80
PC	Sicoklar-Tristar- Resinex PC	all	3,2	< 80
PS	Sicostirolo	all	3,2	< 80
PC-ABS	Mablex-Resinex PC/ABS	all	3,2	< 80
PP	Scolefin-Mafill-Verplen-Ravaplen	all	3,2	< 80
ASA	Polyfast	all	3,2	< 80

Ravago Manufacturing Europe
Regulatory Dept.