

PMMA Retardant AR-S11

Inovia AR-S11 is a newly developed halogen-free flame retardant for acrylate polymers. It can afford acrylate polymers superior retarding performance while not affecting its transparency, which is the first case ever in the whole world. It can be used for extruding and casting products.

Physical Data

Item	Data
Phosphors content	15.8~16.3wt.%
Appearance	Colorless liquid
Thermally stable temperature	>270°C
Viscosity (20°C)	290~450 mm ² /s

Recommended Usage

AR-S11 loading level	UL 94 rating
3~4%	V2@0.5~3.2mm
7~9%	V0@0.5~3.2mm

Processing

AR-S11 can be added during polymerization or during modification steps. If the additive is added during modification, liquid side feeding device is recommended. The processing temperature can be about 20°C lower than that for the virgin resin.

Packaging

20kg/barrel. Samples can be packed as required.

Note: PMMA casting sheet product with AR-S11 shows outstanding weather stability. However, the weathering stability (outdoors rain) of extruded products is not satisfactory, due to a much smaller molecular weight of extrusion PMMA.

*The data recommended in this document can be used as a reference for various purposes. There will also be some amendments along with new technical improvements. Therefore, when designing the product, the use environment and structure of the product should be fully considered, and whether the product has any problems should be judged by the design company itself.