PROTAVIC® ANO 90161

29902-08

DEFINITION

PROTAVIC® ANO 90161 is a low viscosity, UV curable, non yellowing resin designed for bonding optical devices as lenses, optical fibbers, glass.

PRODUCT DESCRIPTION

Appearance	clear liquid	
Odour	sulphur like	
Colour	colourless	
Guaranteed specifications	**Standards**	**Methods**
Viscosity CP 51 at 25°C and 100 rpm	350 ± 50 mPa.s	NFT 51211
Gardner colour	< 1	NFT 20030
Other information		
density	1,1 approximately	
refractive index (liquid state)	1.52	
Dry matter	100 %	
ash residue	0 %	
setting time under UV	< 5 seconds	
storage stability	1 month at 20°C 6 months at -20°C	

APPLICATION PROPERTIES

The low viscosity of **PROTAVIC® ANO 90161** improves the wetting of large glass area and is adapted for spin coating dispensing.
After curing under ultraviolet radiation, **PROTAVIC® ANO 90161** exhibits a good adhesion on glass substrates, such as optical fibber, lens and prism. Moreover, the optical bonding made with **PROTAVIC® ANO 90161** shows good resistance to moisture and high temperature (as reflow soldering).
The good optical properties of **PROTAVIC® ANO 90161** allow its use on light pathway.

USING PROTAVIC® ANO 90161

1 - Application process

During handle, **PROTAVIC® ANO 90161** must be kept away from light in order to avoid the uncontrolled starting of polymerisation.

PROTAVIC® ANO 90161 can be easily applied by spin-coating or micro-dispenser.

2 - UV polymerisation

PROTAVIC® ANO 90161 cures in a few seconds under ultra-violet radiation. **PROTAVIC® ANO 90161** requires from 0.2 to 0.5 J/cm² to fully cure under UV radiation.

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TYPICAL PROPERTIES OF POLYMERIZED SYSTEM

These values given are typical and do not correspond to a guarantee. The user must, in all cases, by his own studies, determine the optimal polymerisation conditions for his own particular application of **PROTAVIC® ANO 90161**.

Properties	**Methods**	**Values**
Shore D hardness	NFT 51109	80 approx.
weight loss at 200°C	TGA	< 0.5 %
weight loss at 300°C	TGA	< 1.5 %
decomposition temperature	TGA	390 - 410 °C
working temperature		from -50 to 200°C

PROTAVIC® ANO 90161 assemblies can be submitted to high process temperature (up to 270°C) for short time (few seconds) without yellowing.

STORAGE CONDITIONS

It is recommended to store **PROTAVIC® ANO 90161** in its hermetically sealed container, protected from moisture and light, at temperature below -20°C. Under these conditions, the maximum period of storage is about 6 months.

PRECAUTIONS OF USE

Refer to enclosed safety data sheet.

PACKAGING

PROTAVIC® ANO 90161 is delivered 10 g and 30 g opaque syringes.