

# LARMOR®YIL Series

## UV-LED Optical Fibre Coloring Ink

LARMOR®YIL is our standard series of optical fibre inks. These inks are available in the following 13 colors: Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Violet, Pink, Aqua and Transparent. The YIL series, with advantages of fast curing speed, small viscosity variation among different colors, good process adaptability, has been successfully used for fibre in ribbon application and in loose tube application.

### — Properties

Item	Typical value	Unit
Viscosity, 25°C	2400	mPa·s
Density, Liquid, 23°C	1.12	g·cm <sup>-3</sup>
Density, Cured, 23°C	1.18	g·cm <sup>-3</sup>
95% cure dose	≤1.0	J·cm <sup>-2</sup>
Elongation*	≥3.0	%
Tensile strength*	≥20	MPa
Modulus, 2.5% strain*	≥500	MPa

\*Cured film thickness 75μm, test temperature at 23±2°C, humidity at 50±5%

### — Color (pantone)

Item	Color	L	a	b
YIL000	Transparent	-	-	-
YIL001	Blue	24.1 - 49.1	-16.3 to -16.9	-55.2 to -27.3
YIL002	Orange	43.5 - 67.6	26.2 - 51.2	21.3 - 52.7
YIL003	Green	33.3 - 61.2	-51.5 to -29.9	6.9 - 31.9
YIL004	Brown	20.9 - 44.0	-3.7 to 13.9	-6.2 to 12.8
YIL005	Grey	33.2 - 63.8	-5.1 to 2.2	-8.7 to -0.5
YIL006	White	83.2 - 100.4	-5.4 to 1.6	-5.0 to 4.6
YIL007	Red	24.4 - 52.1	32.9 - 56.9	4.8 - 24.7
YIL008	Black	10.5 - 33.3	-3.5 to 3.6	-4.2 to 3.1
YIL009	Yellow	65.1 - 87.5	-4.2 to 20.1	35.2 - 81.7
YIL010	Violet	33.5 - 65.5	9.2 - 25.8	-43.8 to -17.8
YIL011	Pink	46.3 - 84.6	16.9 - 42.9	0.1 - 15.1
YIL012	Aqua	42.8 - 77.0	-36.4 to -8.8	-32.5 to -6.8

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## — Storage Condition

LARMOR® YIL series is a light curable material; protect this product from all sources of ultraviolet light, including fluorescent lighting and sunlight to prevent premature curing. It is recommended that this coating be stored in a dry place in unopened, undamaged, original containers at temperatures between 15°C and 30°C. Storage or shipment in cold conditions may result in a phase separation which is reversible and is corrected by heating for 24 hours at 50°C. If possible, the container should be gently rolled to assure uniform dissolution during this heating process.

## — Shelf Life

LARMOR®YIL series has a recommended shelf life of 12 months from the date of manufacture, provided that the above stated storage conditions are properly maintained.

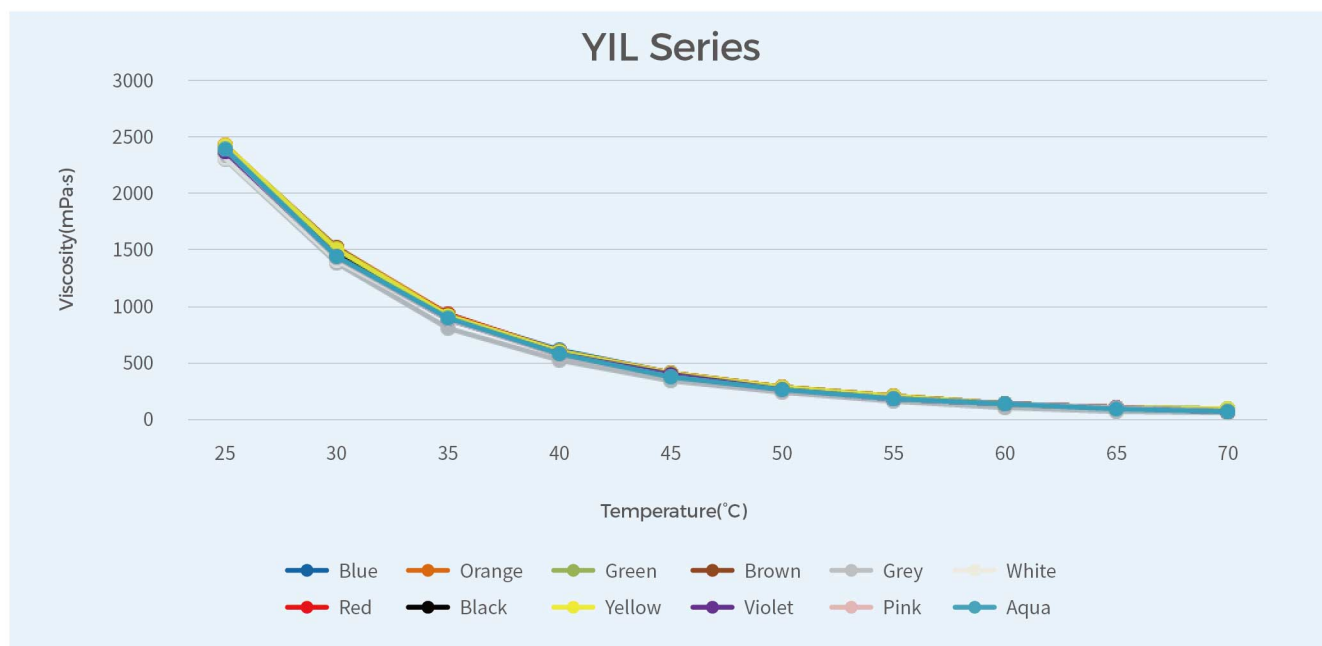
## — Safety Information

This product may cause skin and/or eye irritation and skin sensitization. Material safety data sheet for all products also available from your Polytech sales representative. All safety and handling recommendations should be followed carefully.

## — Filtration

LARMOR®YIL series is manufactured using fine filtration techniques designed to eliminate fibre strength problems and ensure uniform product performance.

## — Viscosity-temperature Curve



NOTES: The information presented herein is based on generally accepted analytical and testing practices and is believed to be accurate. However, Polytech expressly disclaims any product warranties which may be implied, including warranties of merchantability and/or fitness for a particular purpose. Our Products are sold subject the standard terms and conditions of sale, copies of which are available upon request. Purchasers are responsible for determining the suitability of the product for its intended use and the appropriate manner of utilizing the product in purchaser's production processes and applications so as to insure safety, quality and effectiveness.