

Ixef[®]



SOLVAY

asking more from chemistry[®]

Ixef[®] PARA

Gamma-Stabilized
Colors for Healthcare

**SPECIALTY
POLYMERS**



The Look You Want. The Performance You Need.

Set yourself apart with Ixef® polyarylamide (PARA) gamma-stabilized colors. Their high strength, stiffness and smooth surface appearance make them a cost-effective alternative to metal in single-use instruments and devices.

Replacing metal with Ixef® PARA helps hospitals and healthcare networks minimize the transfer of infection and reduce central service costs associated with the sterilization of reusable instruments.

Customize Your Look with Color

Ixef® 1022 gamma-stabilized (GS) colors are based on an FDA Master Access File (MAF) supported color palette that includes white, dark gray, medium gray, light gray, blue, brown, green and black. They can be used to provide a quick visual reference for differentiating instrument sizes and to create a fresh, exciting look for new products.

Sterilization compatibility

| Method | Ixef® PARA |
|-------------------------------------|------------|
| Steam, 10 cycles (18 min at 134 °C) | √ |
| Ethylene oxide gas | √ |
| Vaporized hydrogen peroxide | √ |
| High-energy gamma radiation | √ |

Performance You Can Trust

Unlike lower performing plastics, Ixef® GS-1022 colored resins show no significant change in appearance or loss of mechanical properties after exposure to gamma radiation. They demonstrate no evidence of cytotoxicity, sensitization, intracutaneous reactivity or acute systemic toxicity, based on biocompatibility testing as defined by ISO 10993:1⁽¹⁾

⁽¹⁾Customers are advised to conduct their own investigation and testing on the suitability of these materials for the intended application.

Ixef® GS-1022 Color Palette

| Grade/Color | PMS | ΔE | RAL | ΔE | RGB |
|----------------------|---------------|------------|------|------------|-------------|
| Ixef® GS-1022/WH01 | Cool Gray 1 C | 7.5 | 9010 | 3 | 241 241 241 |
| Ixef® GS-1022/GY51 | 7546 C | 5 | 7024 | 2 | 57 74 88 |
| Ixef® GS-1022/GY01 | Cool Gray 6 C | 4 | 7004 | 3 | 165 172 175 |
| Ixef® GS-1022/GY02 | 5305 C | 5 | 7035 | 4.5 | 210 211 219 |
| Ixef® GS-1022/BU01 | 299 C | 10 | 5012 | 6.5 | 0 152 219 |
| Ixef® GS-1022/BN01 | 476 C | 5 | 8017 | 3.5 | 76 51 39 |
| Ixef® GS-1022/GN01 | 3285 C | 7.5 | 6016 | 13 | 0 133 102 |
| Ixef® HC 1022/BK001* | Black C | 3 | 9004 | 2 | 73 44 38 |

*Inherently stable color that does not require gamma stabilization

The colors and values shown above should only be used as a guide. They are a representation of the color after exposure to 40 kGy gamma radiation. A slight shift in color can be expected between the resin and the final molded part that has been sterilized by gamma radiation. Delta E values listed represent the difference between Ixef® GS colors and standard PMS and RAL color guides.

Pantone Matching System (PMS)

Color chips molded from typical production lots were matched to the Pantone® formula guide on solid coated stock using the Pantone® Color Cue™ color identifier. It is important to note that these color references apply only to the coated formula guide and not the uncoated, matte or plastic guides.

RGB Color Values

The Color Cue™ also provided the respective RGB numbers used to create the color swatches. As monitor resolution and print quality varies, it is important to note that these RGB colors are only a guide. An exact color reference can be obtained by requesting a color chip.

RAL Color Standards

Color chips molded from typical production lots were matched visually to the Classic RAL Color Collection 840-HR, which has a matte finish.

Delta E (ΔE)

Delta E provides a way to quantitatively describe color differences based on a composite of how light or dark, red or green, or yellow or blue a given sample may appear. Solvay uses an X-Rite spectrophotometer to measure the color differences between Ixef® GS-1022 color chips and common color standards. Although each person may see color differently, a ΔE less than 2 can be considered an excellent match; 2–5 is a good match and 5–10 is similar in color.



Ixef® PARA GS-1022 colors
(Patent Pending)





Specialty Polymers

Worldwide Headquarters

SpecialtyPolymers.EMEA@solvay.com

Viale Lombardia, 20
20021 Bollate (MI), Italy

Americas Headquarters

SpecialtyPolymers.Americas@solvay.com

4500 McGinnis Ferry Road
Alpharetta, GA 30005, USA

Asia Headquarters

SpecialtyPolymers.Asia@solvay.com

No.3966 Jindu Road
Shanghai, China 201108

www.solvay.com

Safety Data Sheets (SDS) are available by emailing us or contacting your sales representative. Always consult the appropriate SDS before using any of our products.

Neither Solvay Specialty Polymers nor any of its affiliates makes any warranty, express or implied, including merchantability or fitness for use, or accepts any liability in connection with this product, related information or its use. Some applications of which Solvay's products may be proposed to be used are regulated or restricted by applicable laws and regulations or by national or international standards and in some cases by Solvay's recommendation, including applications of food/feed, water treatment, medical, pharmaceuticals, and personal care. Only products designated as part of the Solviva® family of biomaterials may be considered as candidates for use in implantable medical devices. The user alone must finally determine suitability of any information or products for any contemplated use in compliance with applicable law, the manner of use and whether any patents are infringed. The information and the products are for use by technically skilled persons at their own discretion and risk and does not relate to the use of this product in combination with any other substance or any other process. This is not a license under any patent or other proprietary right.

All trademarks and registered trademarks are property of the companies that comprise the Solvay Group or their respective owners.
© 2014, Solvay Specialty Polymers. All rights reserved. D 08/2009 | R 09/2017 | Version 3.3