



» PRODUCT BULLETIN

Colorant Chromatics™ PSU, PES and PPSU Masterbatches Colors for High-Temperature Applications

Colorant Chromatics™ PSU/PES/PPSU colorants are designed to color polysulfone (PSU), polyethersulfone (PES), and polyphenylsulfone (PPSU) resins used in high-temperature injection molding and extrusion applications.

PSU, PES and PPSU resins offer excellent resistance to heat and fire, and have exceptional dimensional stability. They are ideal for a variety of applications in industries such as aerospace, automotive, telecommunications, construction and healthcare. Colorant Chromatics PSU, PES and PPSU colorants are designed specifically for use in these resins to help boost color consistency and streamline product development for increased speed to market. A range of standard colors also helps molders and extruders manage inventory and working capital. Formulations are heavy metal-free and manufactured using state-of-the-art pigment dispersion techniques that improve homogenization and color distribution.

This sulfone line of masterbatches can accommodate a range of high-temperature application needs. PSU resin has the lowest

temperature requirements, but provides the highest clarity. In comparison, PES resins can accommodate higher temperatures, provide greater mechanical strength, and are robust against exposure to gasoline, oil, and fats. PPSU provides the highest performance with superior impact resistance, flame retardancy, and temperature capabilities.

KEY CHARACTERISTICS

- Consistent coloring and improved homogenization with the polymer for more efficient processing and waste reduction
- Opaque PSU/PES/PPSU masterbatches available with shorter lead times in a range of readily available standard colors
- Minimum order quantities as low as 5kg (10lbs) for improved inventory control
- Robust colorant formulations mean zero disruption to existing molding processes, allowing manufacturers to bring products to market faster and without investing in new machinery

FEATURES AND COLORS

PSU, PES and PPSU masterbatches are manufactured using 100% prime virgin resin. Color specifications are controlled using the L,a,b color system.

Ten standard colors are available for each type of resin. Custom colors and pigment loadings can be developed for specific applications and can be combined with our anti-yellowing additives.

PPSU RESINS

Product Code	Color	LDR*	Pantone No.**
650.00	Black	10%	433C
650.01	Brown	10%	7615C
650.02	Red	10%	186C
650.03	Orange	5%	1495C
650.04	Yellow	10%	142C
650.05	Green	10%	2248C
650.06	Blue	10%	278C
650.07	Violet	20%	2073C
650.08	Grey	10%	Cool Gray 7C
650.09	White	10%	RAL9010

* Recommended let-down-ratio addition rates. Color will vary depending on the coloration design requirements and the end-product thickness

** Pantone reference is the closest possible match

PES RESINS

Product Code	Color	RAL No.*
S837.0	Black	9005
S837.1	Brown	8011
S837.2	Red	3002
S837.3	Orange	2004
S837.4	Light Yellow	1016
S837.5	Green	6032
S837.6	Blue	5015
S837.7	Violet	4005
S837.8	Grey	7037
S837.9	White	9016

* RAL reference is the closest possible match

PSU RESINS

Product Code	Color	LDR*	Pantone No.**
660.00	Black	6%	Black 6C
660.01	Brown	6%	7582C
660.02	Red	8%	7620C
660.03	Orange	6%	1505C
660.04	Yellow	6%	124C
660.05	Green	6%	348C
660.06	Blue	6%	660C
660.07	Violet	15%	7664C
660.08	Grey	6%	Cool Gray 8C
660.09	White	6%	RAL9010



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