



# UPL-AR4 Ultramarine Blue

**Description:** UPL-AR4 is a red shade, acid resistant ultramarine blue. FDA approved (Section 178-3297).

<b>Chemical Type</b>	Ultramarine Blue	<b>Constitution No.</b>	77007
<b>Color Index</b>	Pigment Blue 29	<b>CAS No.</b>	57455-37-5

## Resistance Properties

<b>MEK</b>	5	<b>Ethanol</b>	5
<b>Water</b>	5	<b>Ethyl Acetate</b>	5
<b>Mineral Spirits</b>	5	<b>Acid</b>	(Stable at pH 4 – 7)
<b>Xylene</b>	5	<b>Alkali</b>	3

Legend: 1=Poor, 2=Fair, 3=Good, 4=Very Good, 5=Excellent

## Product Characteristics

<b>Migration (1-5)</b>	5	<b>Lightfastness (1-8): Masstone</b>	7-8
<b>Heat Stability (°C/°F)</b>	350°C (HDPE)	<b>Lightfastness (1-8): Tint 1:10</b>	7-8
<b>Warpage Rating (1-3) * Plastic Only</b>	1	<b>Weatherfastness (1-5): Masstone</b>	
<b>Overpaint Resistance * Paints Only</b>	5	<b>Weatherfastness (1-5): Tint 1:10</b>	

Warpage: 1 = minimal, 2 = some, 3 = severe    Weatherfastness: 1=Poor, 2=Fair, 3=Good, 4=Very Good, 5=Excellent    Lightfastness: 1-2=Poor, 3-4=Fair, 5=Good, 6-7=Very Good, 8=Excellent

## Physical Properties

<b>Particle Size (µm)</b>	2.5	<b>Tap Density (g/cc)</b>	0.50-8.0
<b>Specific Surface Area (m<sup>2</sup>/g)</b>		<b>Specific Gravity</b>	2.35
<b>Oil Absorption (g/100g)</b>	34-37	<b>Bulk Density (kg/L)</b>	
<b>Moisture Content (%)</b>	1.0	<b>Soluble Salts (%)</b>	2.0
<b>Free Sulphur (ppm by weight)</b>	200	<b>Sieve Residue - 45µm (%)</b>	0.2

## Applications

Plastics		Coatings		Inks		Other	
PVC	■	Decorative		Water Flexo		Paper	■
PE	■	Automotive/Aerospace		Solvent Flexo		Rubber	
PP	■	Industrial	■	InkJet		Finger Paints	
PS	■	Powder	■	UV		Seed Coatings	
PET				Offset			
<b>Fiber</b>							

Not Frequently Used     Limited     Recommended

### Comments:

**DISCLAIMER OF LIABILITY FOR RELIANCE ON INFORMATION PROVIDED BY DCL:** The information contained herein is true and accurate to the best of our knowledge and are deemed as typical values, being therefore provided without warranty or guarantee. Since the conditions of use are beyond our control, DCL disclaims all liability and assumes no legal responsibility for damages resulting from use of or reliance upon the information contained herein. DCL strongly recommends careful screening/testing before using its products in production.