

NEWS FLASH #2**The Red Rainbow:****PR 144 / PR 166 / PR 214 / PR 242**

This pallet of reds belongs to the Red Disazo Condensation family, a High Performance Pigment family.

These pigments are basically synthesized by condensation of monoazo naphthol carboxylic derivative with a phenylene diamine derivative. This leads to a high molecular pigment with high performances:

- High solvent resistance in coating
- High migration resistance in PVC
- High temperature stability in polyolefins, up to 300°C
- High lightfastness

The production of these pigments requires a special technology for carrying out the condensation in high boiling solvents and for the isolation.

IQChem is able to offer these four pigments for plastics or paints applications.

We have performed testing in our laboratory in Witterswil against benchmark products.

For the plastics, the following products are available:

Pigment	Color measurement in flexible PVC white reduction 1:10	Countertype
IQC Plast Fast Red 144	DE=0.24 , color strength= 99 %	Versal Red BR
IQC Plast Fast Red 166	DE=0.49 , color strength= 102 %	Versal Scarlet R
IQC Plast Fast Red 214	DE=0.73, color strength= 105 %	PV Fast Red BNP
IQC Plast Fast Red 242	DE=0.52 , color strength= 97 %	PV Fast Scarlet 4RF

In Coatings, the following products are available:

Pigment	Color measurement in flexible PVC white reduction 1:10	Countertype
IQC Coat Red 166	DE= 0.46 , color strength= 105 %	Versal Red R
IQC Coat Red 214	DE= 0.72, color strength= 102%	Versal Red BRN
IQC Coat Red 242	DE= 0.4, color strength= 97 %	Novoperm Scarlet 4RF

Please find below a table with the general features of these Red Disazo Condensation pigments:

	PR 144	PR 166	PR 214	PR 242
Shade	Medium slightly bluish shade	Yellowish shade	Bluish shade	Scarlet
Lightfastness	Good	Good	Very good	Excellent light and weatherfastness
Heat Stability in HDPE	300 °C	300 °C	300 °C	300 °C
PVC	Fast to migration	Fast to migration	Fast to migration	Fast to migration
Paint	Fast to alkali and acid	Fast to overcoating in alkyd-melamin paints	Fast to overcoating at 200°C	Fast to overcoating at 180°C
Applications	PP spin dyeing Metal deco printing	High grade industrial paints High grade printing inks	PP spin dyeing High grade printing inks Metal deco	PVC Industrial paints Emulsion paints High grade printing inks

Don't hesitate to contact us for further information.