

ResonPas™ Organic Pigments For Masterbatch and Compounds

Product Name (Color Index No.)	Full Shade (0.1% Pigment)	Reduced Shade (0.1% Pigment + 1% TiO ₂)
ResonPas™ 1301 Benzidine Yellow G (C.I. Pigment Yellow 12)		
ResonPas™ 1302 Benzidine Yellow 2BT (C.I. Pigment Yellow 12)		
ResonPas™ 1313 Permanent Yellow 6BNP (C.I. Pigment Yellow 13)		
ResonPas™ 1214 Permanent Yellow 20ST (C.I. Pigment Yellow 14)		
ResonPas™ 1217 Permanent Yellow GG (C.I. Pigment Yellow 17)		
ResonPas™ 1102 Permanent Yellow VGR (C.I. Pigment Yellow 62)		

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ResonPas™ 1203 Permanent Yellow HR (C.I. Pigment Yellow 83)		
ResonPas™ 1210 Fast Yellow 2BL7 (C.I. Pigment Yellow 110)		
ResonPas™ 1211 Fast Yellow 2BL2 (C.I. Pigment Yellow 110)		
ResonPas™ 1139 Fast Yellow 2BF (C.I. Pigment Yellow 139)		
ResonPas™ 1106 Fast Yellow 430 (C.I. Pigment Yellow 160)		
ResonPas™ 1101 Fast Yellow VGR (C.I. Pigment Yellow 191)		

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Product Name (Color Index No.)	Full Shade (0.1% Pigment)	Reduced Shade (0.1% Pigment + 1% TiO ₂)
ResonPas™ 1102 Fast Yellow H2BP (C.I. Pigment Yellow 151)		
ResonPas™ 2207 Permanent Orange G (C.I. Pigment Orange 13)		
ResonPas™ 2203 Permanent Orange DB (C.I. Pigment Orange 13)		
ResonPas™ 2206 Permanent Orange RL (C.I. Pigment Orange 14)		
ResonPas™ 2206 Permanent Orange CL (C.I. Pigment Orange 14)		
ResonPas™ 3111 Fast Red 2B (C.I. Pigment Red 48:1)		

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Product Name (Color Index No.)	Full Shade (0.1% Pigment)	Reduced Shade (0.1% Pigment + 1% TiO ₂)
ResonPas™ 3112 Fast Red B2C (C.I. Pigment Red 48:2)		
ResonPas™ 3116 Fast Red 2BP (C.I. Pigment Red 48:2)		
ResonPas™ 3113 Fast Red B2S (C.I. Pigment Red 48:3)		
ResonPas™ 3123 Fast Red 2BSP (C.I. Pigment Red 48:3)		
ResonPas™ 3124 Lake Red CP (C.I. Pigment Red 53:1)		
ResonPas™ 3125 Lake Red LCP (C.I. Pigment Red 53:1)		

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Product Name (Color Index No.)	Full Shade (0.1% Pigment)	Reduced Shade (0.1% Pigment + 1% TiO ₂)
ResonPas™ 3158 Lithol Rubine B2P (C.I. Pigment Red 57:1)		
ResonPas™ 3110 Carbazole B2P (C.I. Pigment Red 57:1)		
ResonPas™ 3115 Fast Rubine B2P (C.I. Pigment Red 57:1)		
ResonPas™ 3176 Quinacridone (C.I. Pigment Red 122)		
ResonPas™ 3170 Permanent Red 193K (C.I. Pigment Red 170)		
ResonPas™ 3171 Permanent Red 193K (C.I. Pigment Red 171)		

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Product Name (Color Index No.)	Full Shade (0.1% Pigment)	Reduced Shade (0.1% Pigment + 1% TiO ₂)
ResonPas™ 3172 Fast Red F29K (C.I. Pigment Red 170)		
ResonPas™ 3204 Fast Red D2P (C.I. Pigment Red 294)		
ResonPas™ 4421 Phthalocyanine Blue B (C.I. Pigment Blue 15:0)		
ResonPas™ 4422 Phthalocyanine Blue BP (C.I. Pigment Blue 15:0)		
ResonPas™ 4431 Phthalocyanine Blue BS (C.I. Pigment Blue 15:1)		
ResonPas™ 4432 Phthalocyanine Blue BPP (C.I. Pigment Blue 15:1)		

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Product Name (Color Index No.)	Full Shade (0.1% Pigment)	Reduced Shade (0.1% Pigment + 1% TiO ₂)
ResonPas™ 4403 Phthalocyanine Blue B55 (C.I. Pigment Blue 15:3)		
ResonPas™ 4406 Phthalocyanine Green GP (C.I. Pigment Green 7)		
ResonPas™ 6009 Quinacridone BV (C.I. Pigment Violet 19)		
ResonPas™ 6910 Quinacridone B2B (C.I. Pigment Violet 19)		
ResonPas™ 6908 Permanent Violet BLP (C.I. Pigment Violet 23)		
ResonPas™ 6909 Permanent Violet BLP (C.I. Pigment Violet 23)		

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ResonPas™ Fluorescent Pigments For Plastic and Masterbatch

Product Name	Full Shade (1% Pigment)	Reduced Shade (0.1% Pigment + 0.1% TiO ₂)
RS-11 Pink		
RS-12 Carlie		
RS-13 Red		
RS-14 Red Orange		
RS-15 Orange		
RS-16 Orange Yellow		
RS-17 Yellow		
RS-20 Lemon Yellow		
RS-18 Green		
RS-19 Blue		
RS-21 Rose		
RS-22 Violet		
RS-25 Purple		

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ResonPas™ RS Series Fluorescent Pigments
ResonPas™ RS Series Fluorescent Pigments feature superior brightness, high tinting strength and more fluorescent when compared to other thermoplastic fluorescent pigments, commonly available. Recommended for the coloring of the injection molding of polycarbonate resin. RS Series Fluorescent Pigment is essentially non-toxic and contains no constituent heavy metals, safe to be applied in finished product such as toys. In compliance with currently available international regulations (such as RoHS) on heavy metal concentrations.

Technical Data:
Specific Gravity: 1.26g/cm³
Average Particle Size: 2.4 microns
Oil Absorption: 45-50g/100g
Softening Point: 150°C max.
Decomposition Point: 200°C max.

Application in Plastics:
Injection Molding
ULTEM, HDPE, PE, PS
SBS/PC, ABS, PC/ABS, PC/PA, PA, PA/PC, PA/PE

Note:
1. US ASTM F963, 964 (A, B, C) Standard Consumer Safety Specification for Safety.
2. EU European Standard on Safety of Toys, EN71 Part 3:1989 (including amendment A1:2005) Migration of Certain Elements.

ResonPas™ Fluorescent Pigments For Plastic and Masterbatch

Product Name	Full Shade (1% Pigment)	Reduced Shade (0.1% Pigment + 0.1% TiO ₂)
ZD-11 Pink		
ZD-12 Carlie		
ZD-13 Red		
ZD-14 Red Orange		
ZD-15 Orange		
ZD-16 Orange Yellow		
ZD-17 Yellow		
ZD-20 Lemon Yellow		
ZD-18 Green		
ZD-19 Blue		
ZD-21 Rose		
ZD-22 Violet		

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ResonPas™ ZD Series Fluorescent Pigments
ResonPas™ ZD Series Fluorescent Pigment features remarkable fine, lower metal content and excellent high tinting strength and excellent brightness. ZD Series Fluorescent Pigment has increased plastic compatibility, high resistance and excellent heat stability in injection molded plastics up to 300°C. ZD Series Fluorescent Pigment is essentially non-toxic and contains no constituent heavy metals, safe to be applied in finished products such as toys. In compliance with currently available international regulations (such as RoHS) on heavy metal concentrations.

Technical Data:
Specific Gravity: 1.26g/cm³
Average Particle Size: 3.0 microns
Oil Absorption: 45-50g/100g
Softening Point: 150°C max.
Decomposition Point: 200°C max.

Application in Plastics:
Injection Molding
ULTEM, HDPE, PE, PS
SBS/PC, ABS, PC/ABS, PC/PA, PA, PA/PC, PA/PE, PA/PA, ABS

Note:
1. US ASTM F963, 964 (A, B, C) Standard Consumer Safety Specification for Safety.
2. EU European Standard on Safety of Toys, EN71 Part 3:1989 (including amendment A1:2005) Migration of Certain Elements.