



PEERLESS
PLASTICS & COATINGS

TECHNICAL DATA SHEET – PPC05 UVHC3000K

Chemical & abrasion resistant optical coating suitable for outdoor use.

DESCRIPTION

UVHC3000K is a UV cured, silica-modified coating, designed to give optimum weathering, chemical and abrasion protection to Polycarbonate. Developed by **Momentive Performance Materials**, **UVHC3000K** is independently tested and verified throughout a wide range of industries.

Suitable for products which demand superior weathering and mar resistance combined with chemical resistance – this coating is often used in the aerospace, automotive and rail industries throughout the world.

BENEFITS

- **Abrasion Resistance** – Scuffs, chips and scratches are vastly reduced in both quantity and severity.
- **Optical Clarity** – Sprayed on and UV Cured; no visible flow lines leave a clear and transparent finish.
- **Chemical Resistance** – Protection against common cleaning chemicals without worry of damage.
- **Enhancement** – A high gloss finish enhances coloured plastics and prints.
- **Weatherable** – Providing protection against yellowing from the sun's UV rays.
- **Durability** – All Peerless coatings enhance the life of any plastic substrate.

TECHNICAL DATA

TYPICAL PHYSICAL PROPERTIES

	UNIT	TYPICAL VALUE
Abrasion resistance ¹	Δ haze in %	< 10
Water soak adhesion ²	-	Gt 0
Density	g/cm ³	1.025
ΔE after 2000 hours ^{3,4}	-	0.3
Yellowness-Index acc to ASTM E313 after 2000 hrs ³	-	< 0.5
ΔHaze acc to ASTM D1003 after 2000 hours ³	%	0.6
Grey scale acc to ISO 105A02 after 2000 hours ³	-	>4

¹ ASTM D1044/1003, 500 cycles, CS10F wheels, 4th generation

² 10d at 65°C water immersion followed by tape pull test according to EN ISO 2409 on various PMMA, PC, SAN, substrate dependent

³ Test Protocol: ASTM G155 Black Panel Temperature: 70 °C Chamber Temperature: 55 °C Relative Humidity: 50% Irradiance at 340nm: 0.55 W/m² Xenon Lamp Filters: Inner: S.Boro, Outer: S.Boro

⁴ $\Delta E = ((L1-L2)^2 + (a1-a2)^2 + (b1-b2)^2)^{1/2}$

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