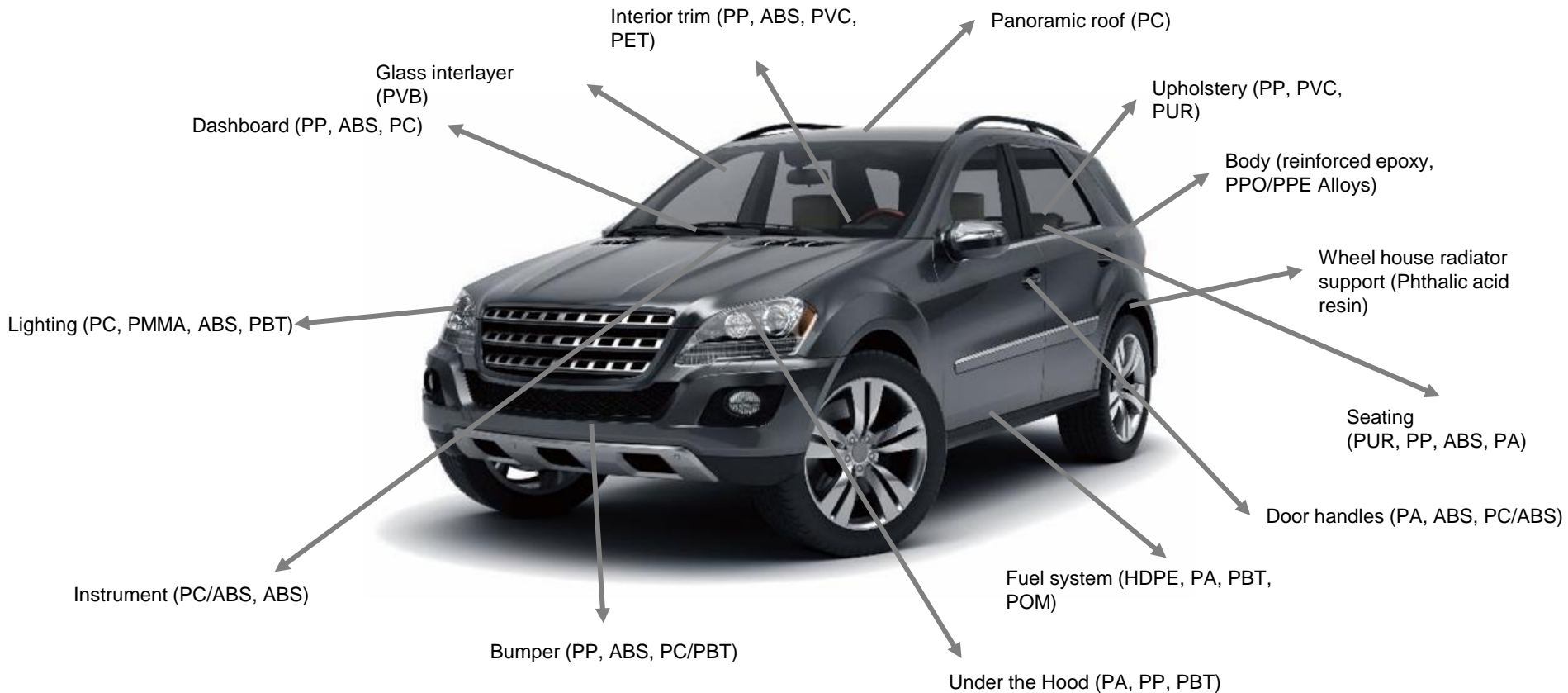


# Plastic coatings

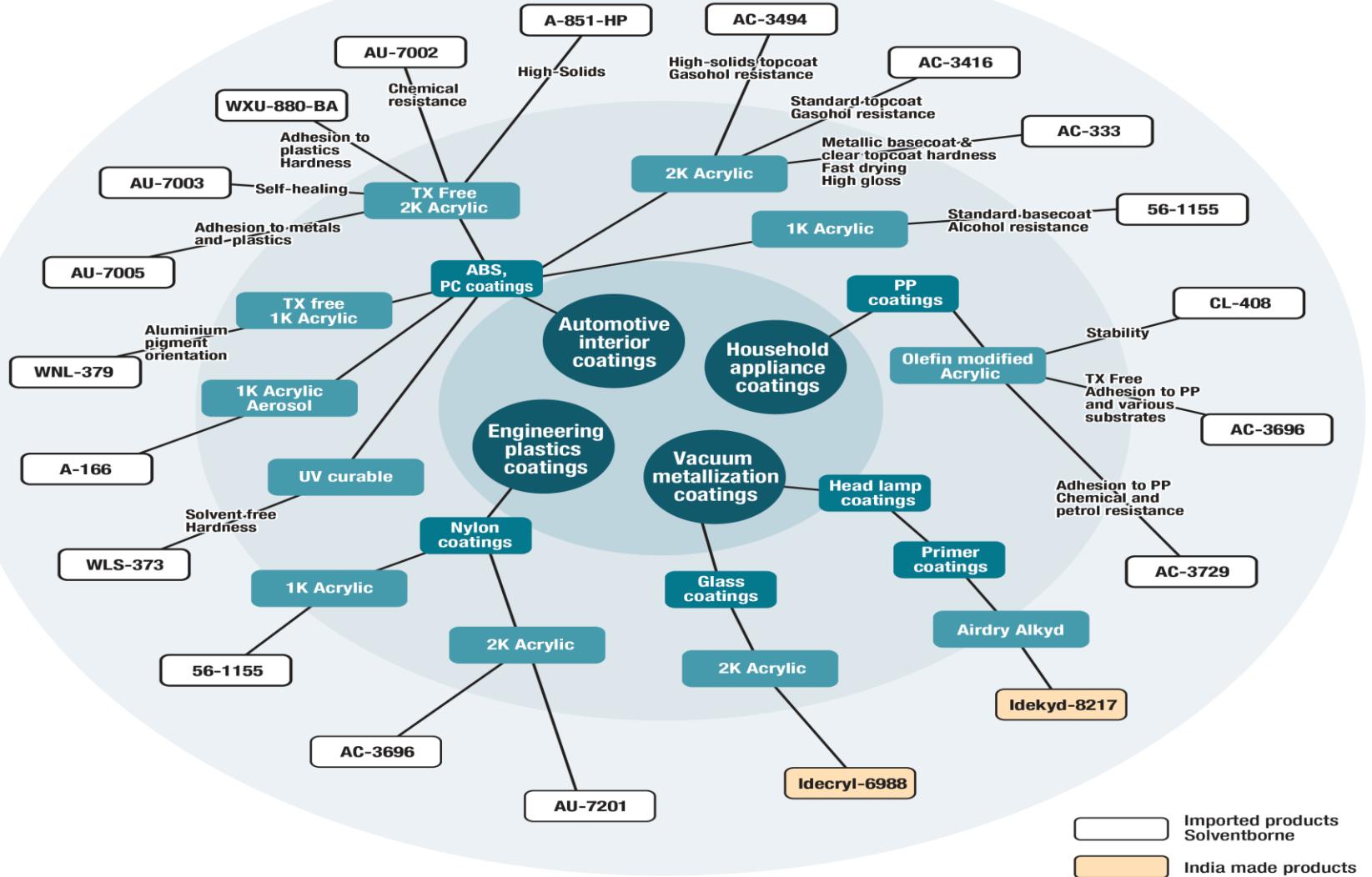
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# Plastics applications in automotive parts



# Product line-up for plastic coatings



# Plastic coatings

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PP coatings



# Product specification for PP coatings

Type	Product name	Solids content, %	Viscosity, Gardner	OHv on solids, mgKOH/g	Acid value on solids, mgKOH/g	Color, Gardner	Solvents	Features
CPO-modified acrylic	ACRYDIC CL-408	44.0 - 46.0	Z2 – Z4	29 - 38	5 max.	2 max.	Toluene, Solvesso-100, Butyl acetate	Adhesion to plastics especially PP
	ACRYDIC AC-3696	57.0 - 59.0	Z3 – Z6	15 - 25	6 max.	-	Butyl acetate	Adhesion to plastics especially PP as 1K or 2K systems, TX free
	ACRYDIC AC-3729	51.0 - 53.0	Z3 – Z6	15 - 25	0 - 6	-	Xylene, Butyl acetate	Adhesion to PP, chemical and petrol resistance
	ACRYDIC AU-7524	51.0 - 53.0	Z3 – Z6	35 - 45	2 max.	-	Xylene, Butyl acetate	Adhesion to PP and interlayer adhesion with 2KPU topcoat

# ACRYDIC AC-3729 CPO-modified acrylic for PP coating

Specification	ACRYDIC AC-3729
NV (%)	51.0-53.0
Viscosity (Gardner)	Z3-Z6
OHv (mgKOH/g, solids)	15-25
A.N. (mgKOH/g, solids)	0-6
Solvent	Xylene, n-Butyl acetate



- Excellent adhesion to untreated/treated PP and other plastic substrates
- Excellent petrol resistance (AC-3729)
- Workability

**CPO resin**

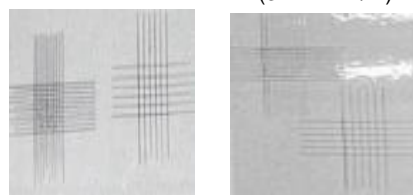
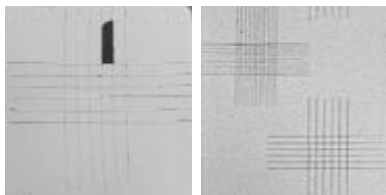
**ACRYDIC AC-3729**

Surface energy of PP substrate

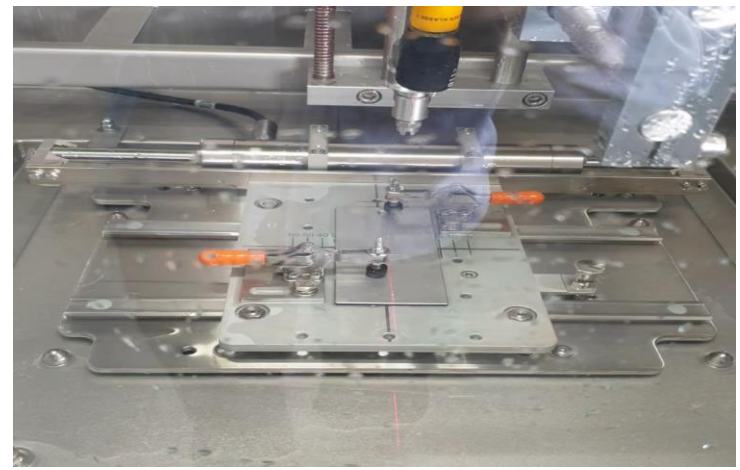
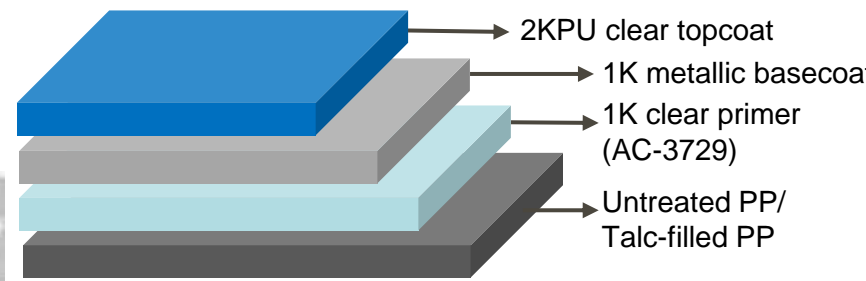
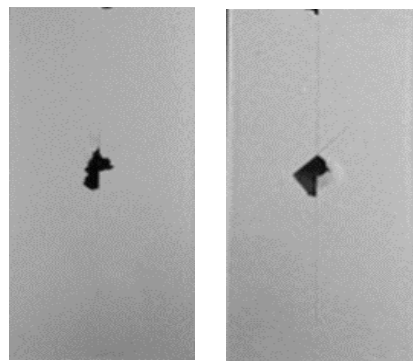
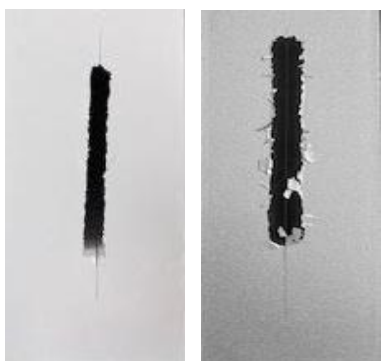
Untreated PP (28.17 mN/m)      Talc-filled PP (32.74 mN/m)

Untreated PP (28.17 mN/m)      Talc-filled PP (32.74 mN/m)

Crosshatch



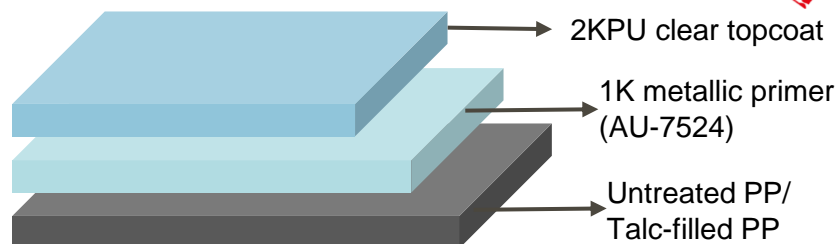
Steam jet test (DIN Std.)



**NEW**

# ACRYDIC AU-7524 CPO-modified acrylic for PP coatings

Specification	ACRYDIC AU-7524
NV (%)	51.0-53.0
Viscosity (Gardner)	Z3-Z6
OHv (mgKOH/g, solids)	35-45
A.N. (mgKOH/g, solids)	2 max.
Solvent	Xylene, n-Butyl acetate

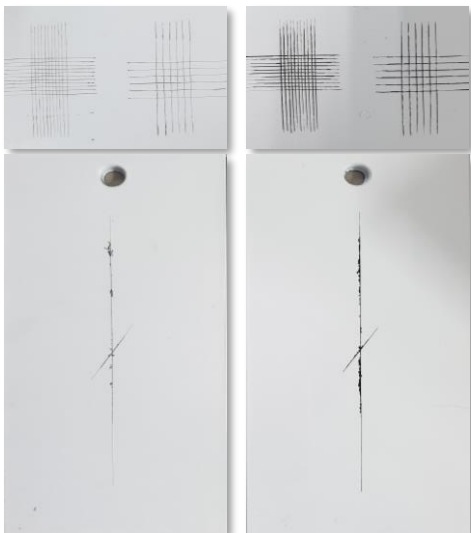


- Excellent adhesion to untreated/treated PP and other plastic substrates
- Excellent interlayer adhesion with 2KPU topcoat
- Metallic orientation/Pigment dispersibility

## White monocoat

CPO resin

AU-7524



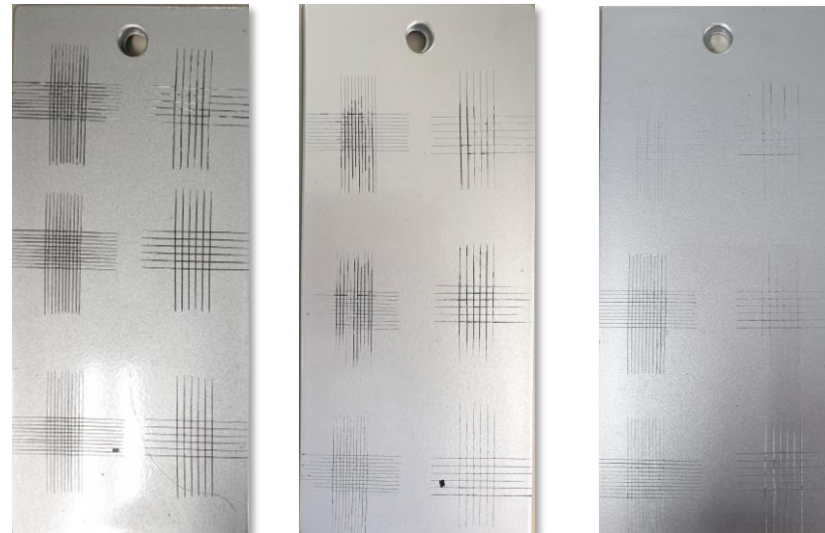
## 2-layer coat

Metallic basecoat: AU-7524

Low OH clear coat

Medium OH clear coat

High OH clear coat



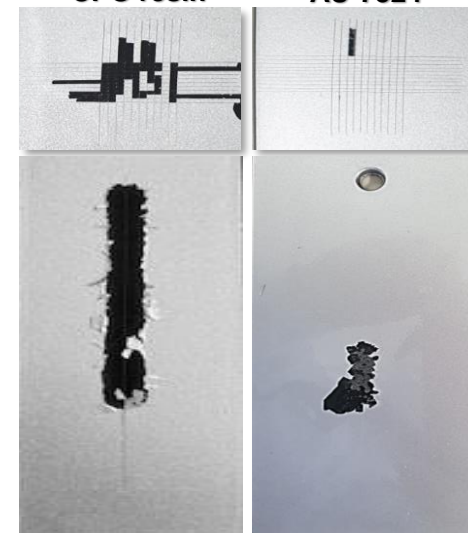
## 3-layer coat

2KPU clear coat

1K Metallic basecoat

1K clear primer: CPO resin

1K clear primer: AU-7524



# Plastic coatings

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## General plastic coatings



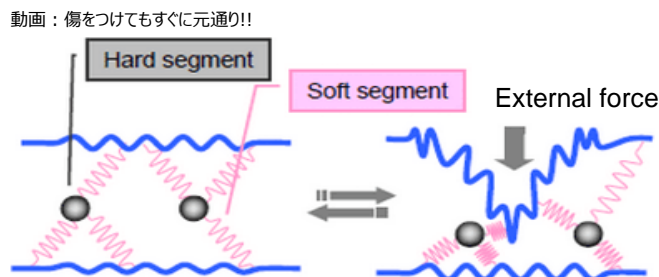
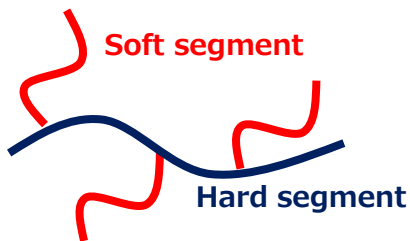


# ACRYDIC AU-7003 OH functional acrylic resin for self-healing

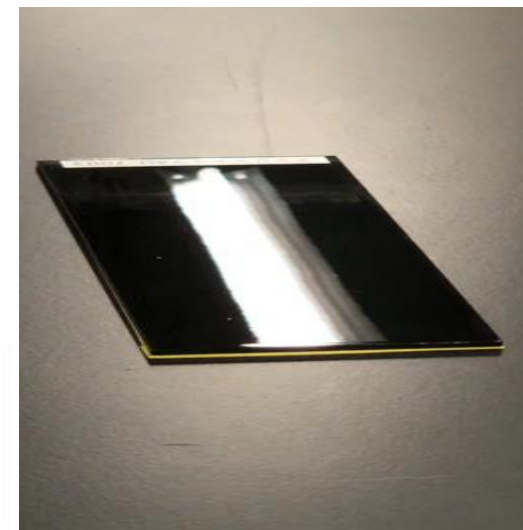
Specification	ACRYDIC AU-7003
NV (%)	59.0-61.0
Viscosity (Gardner)	G-L
OHv (mgKOH/g, solids)	138-148
A.N. (mgKOH/g, solids)	5-10
Color (Gardner)	1 max.
Solvent	Propylene glycol methyl ether acetate

**ACRYDIC AU-7003**  
Solventborne OH functional Acrylic resin

- Excellent Self-healing
- Excellent Adhesion to Plastics e.g. ABS, PC, and PC/ABS
- BTX free



	Substrate	AU-7003
Adhesion (1mm Cross-hatch) *1	ABS PC	5B 5B
Chemical Resistance*2		
Neutrogena 5mg/cm <sup>2</sup> , 55°C, 4h	ABS	Appearance: 5 Cross cut: Pass
Elongation		100%
Self-healing		Excellent Recovered 30 sec after abrasion

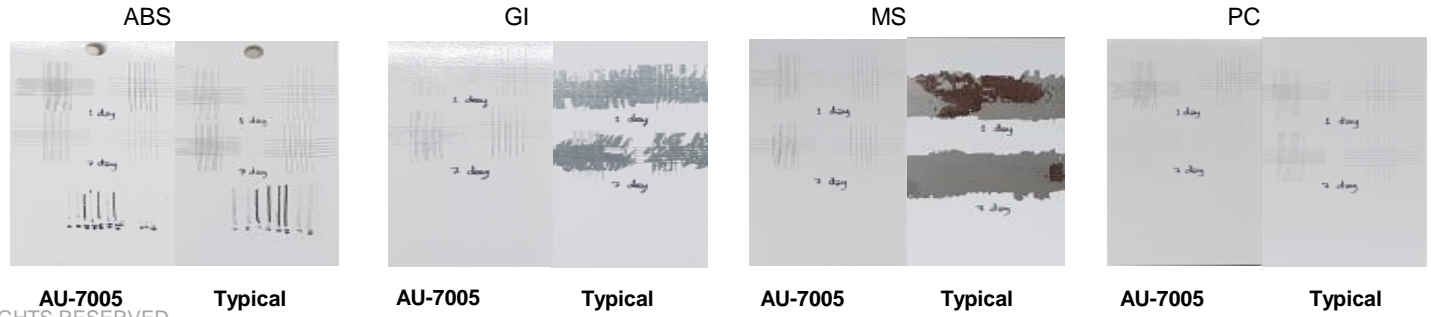
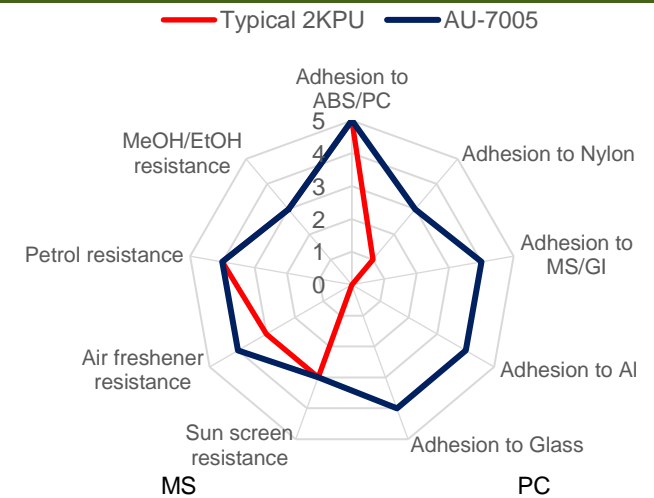
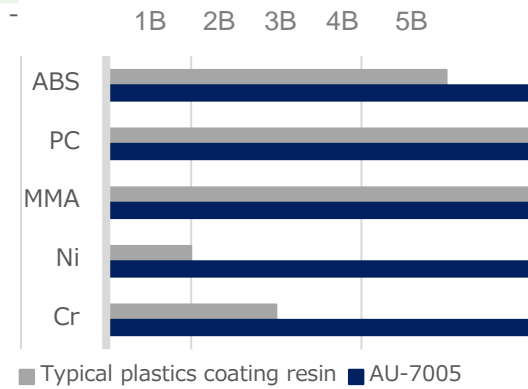


# ACRYDIC AU-7005 OH functional acrylic resin for plastic coatings

Specification	ACRYDIC AU-7005
NV (%)	54.0-56.0
Viscosity (Gardner)	V-Z1
OHv (mgKOH/g, solids)	59-70
A.N. (mgKOH/g, solids)	7-13
Color (Gardner)	1 max.
Solvent	Butyl acetate, Propylene glycol methyl ether acetate, MEK

- ### ACRYDIC AU-7005
- Solventborne OH functional Acrylic resin
- Adhesion metal and plastic substrates like ABS, PC, PMMA, Ni and Cr
  - Chemical resistance
  - Sunscreen lotion resistance
  - BTX free

- ABS Acrylonitrile-Butadiene
- PC -Styrene Resin Polycarbonate resin
- MMA Polymethylmethacrylate resin
- Ni Nickel plated steel
- Cr Stainless steel



# Plastic coatings

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Resin for multipurpose use



# ACRYDIC AU-7201/AC-3734 (VN) OH functional acrylic resin for multipurpose use

**NEW**

Specification	ACRYDIC AC-3734
NV (%)	49.0-51.0
Viscosity (Gardner)	S-X
OHv (mgKOH/g, solids)	26-38
A.N. (mgKOH/g, solids)	8 max.
Color (Gardner)	1 max.
Solvent	Isobutyl acetate, Butyl acetate

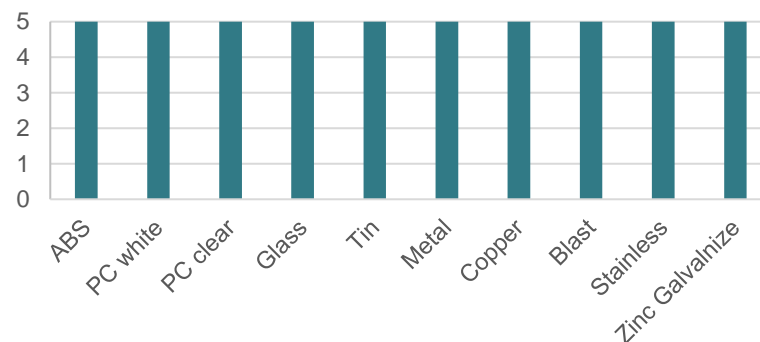
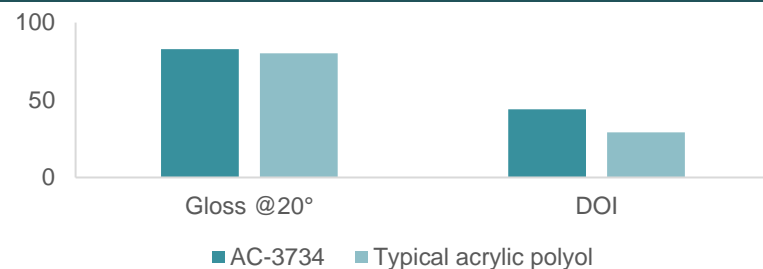
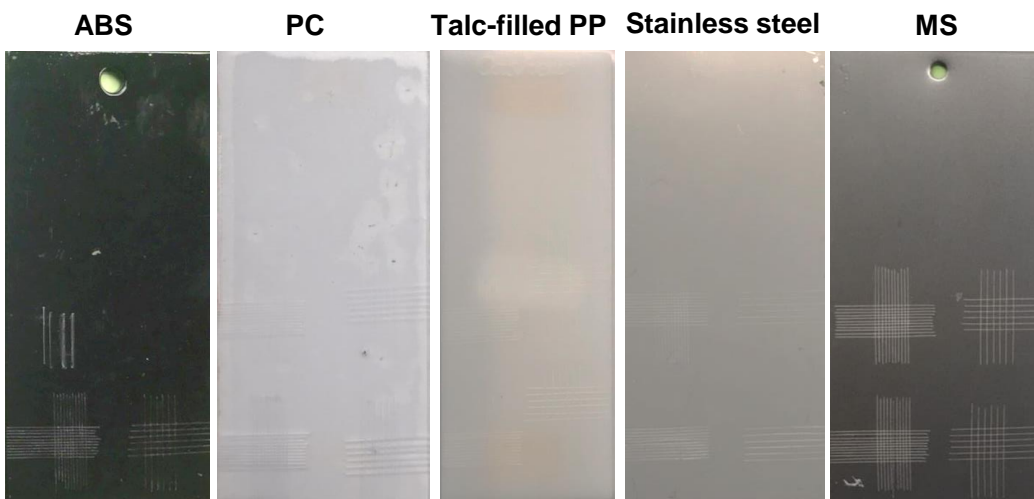
## Resins for the difficult-to-adhere substrates (PA, PAGF)

### ACRYDIC AC-3734

Solventborne OH functional Acrylic resin

- Hybrid technology
- Excellent adhesion to Polyamide (PA), Glass-filled polyamide (PAGF), metal and glass substrates
- Metallic pigment dispersibility

## Adhesion (cross-hatch)





Color & Comfort



**DIC Corporation**