

Powder Coating for Metal Packaging

CRYLCOAT® E 04324 and BECKOPOX® EH694



Epoxy-free powder coating solution for food contact application



CRYLCOAT E 04324 is a special hydroxylated polyester, NPG free, for use with poly-anhydride BECKOPOX EH 694 to produce epoxy-free powder coating solution for food contact application (FDA 21 C.F.R. § 175.300 and European Plastic Regulation No 10/2011).

Resin	Hydroxyl Value mgKOH/g	Acid Value mgKOH/g	Viscosity 200°C mPa s	Tg °C	Melting point °C
CRYLCOAT E 04324	110	-	3600-4000	51	-
BECKOPOX EH 694	-	275	-	-	55

Value Proposition

- NPG free
- BPA – NI (Not Intended)
- Food contact application
- Possible contact with alcoholic beverage
- High blooming resistance

Target application

- Internal coating for mono-block aerosol can

Starting Point Formulations

Component	Weight %
CRYLCOAT® E 04324	41.0
BECKOPOX® EH 694	15.0
Titanium dioxide	29.0
Barium sulphate	10.7
Benzoin Degassing Agent	0.3
ADDITOL® P 896	4.0

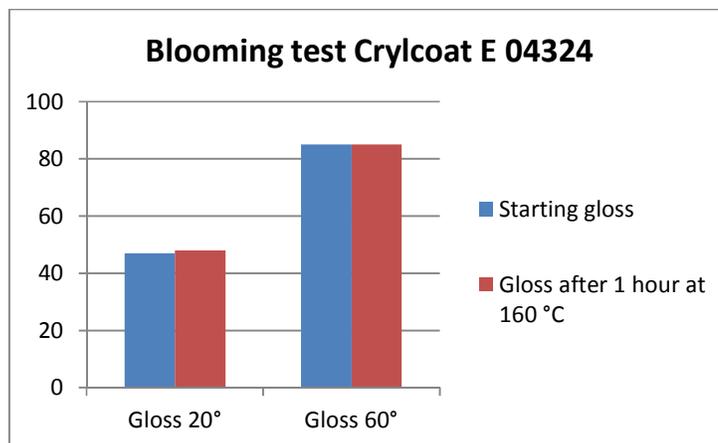
Extrusion and application conditions

Extrusion	Twin Screw
Film thickness	avg 60 micrometer
Cure	10'@200°C (metal)



Formulation for blooming test

Component	Weight %
CRYLCOAT® E 04324	38.5
Titanium dioxide	28.5
MODAFLOW® P 6000	15.0
VESTAGON®* EP-B 1190	31.5



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CRYLCOAT E 04324 and BECKOPOX EH 694 available now for customers in Europe, Middle East, Africa (EMEA), Asia Pacific regions and Americas, a powder coating solution for food contact application.

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