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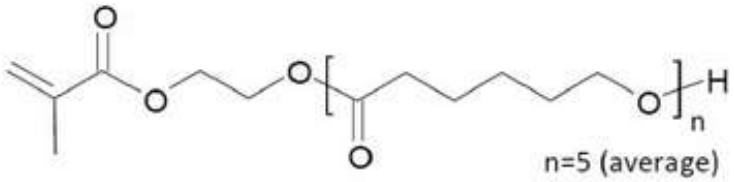
PDS (Product Data Sheet)
Document No. 20140277

PLACCEL FM5

Epsilon-Caprolactone-modified Hydroxyalkyl Methacrylate

<Description>

PLACCEL FM5 is macromonomer having a methacrylic double bond and a primary hydroxyl group. Copolymerization with PLACCEL FM5 introduces primary hydroxyl groups in the acrylpolyol resin. These hydroxyl groups are dangling from acrylpolyol main chain via flexible polycaprolactone chain. Hence they can easily react with melamine or other hardening agents such as polyisocyanate to form crosslinking. This results in elastic and tough coating films.



<Composition / Information on Ingredients>

Substance or Mixture: Substance

Chemical Name or Generic Name	Concentration or % Ranges	CAS RN
Epsilon-Caprolactone-modified hydroxyalkyl methacrylate	[illegible]	[illegible]
4-Methoxy phenol	[illegible]	[illegible]

<Global Regulation>

TSCA (USA)	REACH (EU)	DSL/NDSL (Canada)	ENCS (Japan)	ECL (Korea)	IECSC (China)	AICS (Taiwan)	PICCS (Philippines)	NZIoC (New Zealand)	AICS (Australia)
✓	✓(*1)	✓(*1)	✓	✓	✓	✓		✓	✓

(*1) Daicel and our partner have already registered this substance. (*2) NDSL

<Typical Properties>

Item / Product	Molecular Weight (g/mol)	Appearance (25 °C)	Color (Pt-Co Units)	OH Value (KOH mg/g)	Acid Value (KOH mg/g)	Water (% by wt)	Viscosity (mPa·s/40 °C)
FM5	700	Paste	30	79.9	1.29	0.059	123

It should be noted that typical property values shown in this technical data sheet are representative values and are not guaranteed values. Please contact us to obtain detail of product and guaranteed values.

Please refer to our SDS (safety data sheet) for information on the handling of each product.

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