

# Lonzacure<sup>®</sup> Product Range

## Chain Extenders and Curing Agents



### Introduction

Lonzacure<sup>®</sup> brand products are high quality components utilized as chain extenders or as curatives. Lonzacure<sup>®</sup> brand products are easy to combine together with polyurea, polyurethane or epoxy resins. Lonzacure<sup>®</sup> brand products offer beneficial mechanical and chemical resistance at a low level of toxicity resulting in less worker risk in industrial settings with routine exposure controls as outlined in our Safety Data Sheet (SDS).

As epoxy hardeners they provide improved use temperatures, moisture absorption and impact resistance.

Lonzacure<sup>®</sup> brand products offer brilliant mechanical and chemical resistance at a low level of toxicity resulting in less worker risk in industrial settings with routine exposure controls as outlined in our SDS.

### Lonzacure<sup>®</sup> for High Performance Materials

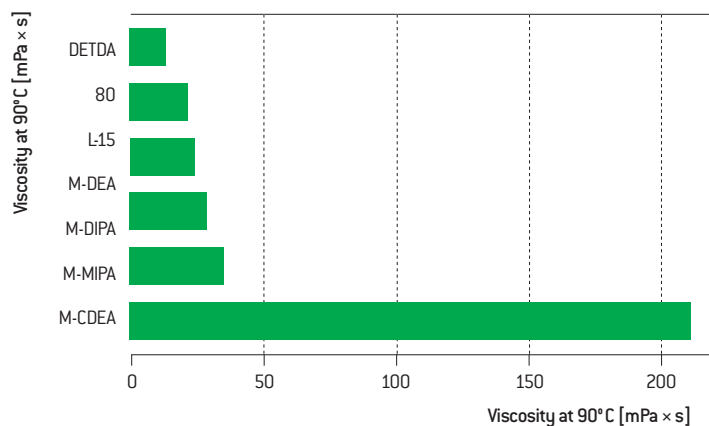
Product grade	Appearance	Melting point	H+ active equivalent	Performance with epoxy resins <sup>*1</sup>		Elongation at max. tensile strength <sup>*3</sup>
		° C	g / eq	Geltime at 150° C min	T <sub>g</sub> <sup>*2</sup> °C	%
Lonzacure <sup>®</sup> M-CDEA	Solid, powder	88	95	128	191	2.9
Lonzacure <sup>®</sup> M-CDEA gs	Solid, pellets	88	95	128	191	2.9
Lonzacure <sup>®</sup> M-DEA	Solid, powder	88	78	43	177	3.2
Lonzacure <sup>®</sup> M-MIPA	Solidified melt	72	78	38	198	2.2
Lonzacure <sup>®</sup> M-DIPA	Solidified melt	61	94	60	192	3.6
Lonzacure <sup>®</sup> DETDA 80	Liquid	-15	45	13	204	2.3
Lonzacure <sup>®</sup> L-15	Liquid	< 0	61	27	181	3.6

\*1: with epoxy resin EEW 180 – 190 g / eq and cure cycle: 4h at 130° C + 4h at 160° C + 4h at 190° C

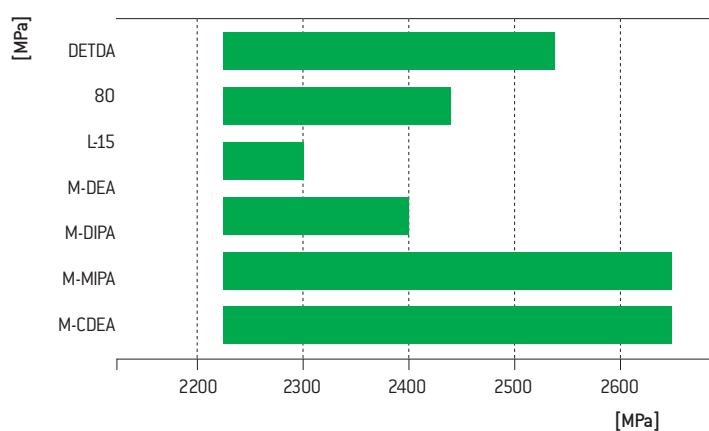
\*2: tan  $\delta$  by DMA

\*3: in accordance to ISO 527

## Viscosity at 90° C



## Tensile modulus [ISO 527]



These charts represent typical values only which are not indicative of specific data points. Actual results will be determined by the materials, test parameters and methodologies used in each evaluation.



CURING AGENT

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