

Based on IDEMITSU Stereo-regularity Control Tech.

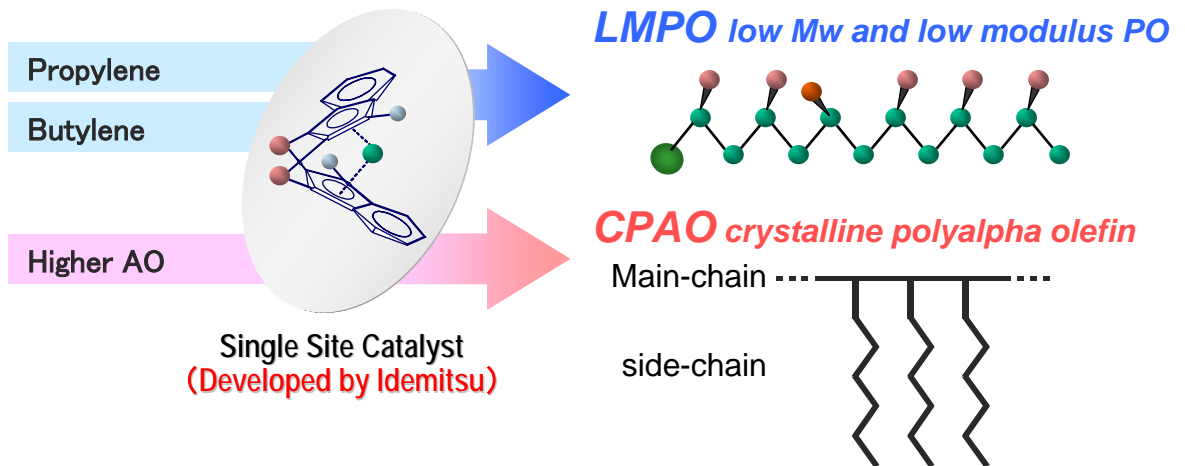
IDEMITSU NEW PO

LMPO, CPAO

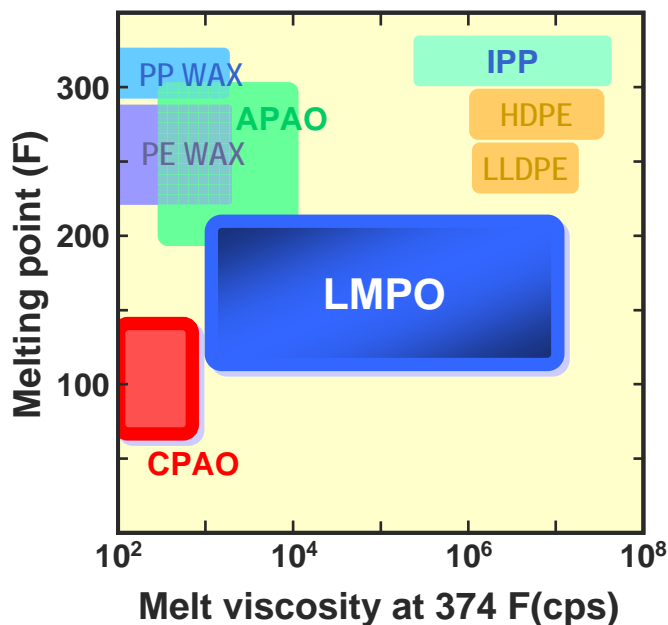
DEVELOPMENTAL PRODUCT

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New polyolefin by IDEMITSU



Explored new region of polyolefin



Application ideas

LMPO

Hot-melt Adhesive
PSA
Resin Modifier
Pigments-dispersing Agent

CPAO

Adhesive Modifier
Resin Modifier
Wax Modifier

New region of PO property was developed by IDEMITSU stereo-regularity and Mw control technology.

Based on IDEMITSU Stereo-regularity Control Tech.

Low Mw and Low Modulus Polyolefin

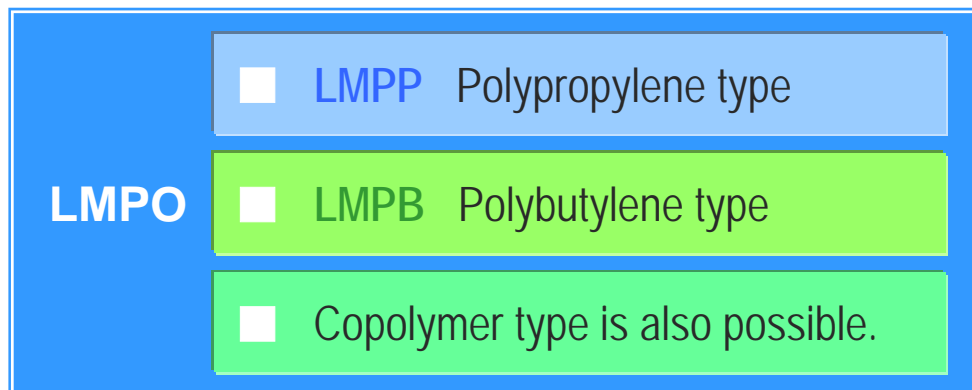
LMPO

DEVELOPMENTAL PRODUCT

For Hot-melt Adhesive, PSA, Resin Modifier, and Pigments-dispersing Agent... etc.

LMPO has :

- Low crystallinity derived from stereo-regularity control tech.
→ Low melting point despite of homo-polymer
- Low Mw and Narrow Mw distribution
- Variation of LMPO :



Excellent Properties

- High heat-stability
- Not sticky
- Soft
- Soluble in various solvents
- Low melt-viscosity
- Compatible with PP
- Odorless
- Colorless and transparent

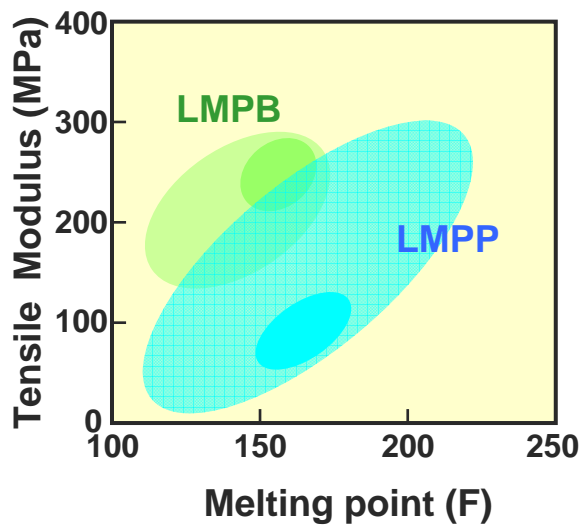
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Low Mw and Low Modulus Polyolefin

LMPO

DEVELOPMENTAL PRODUCT

Modulus & Melting Point

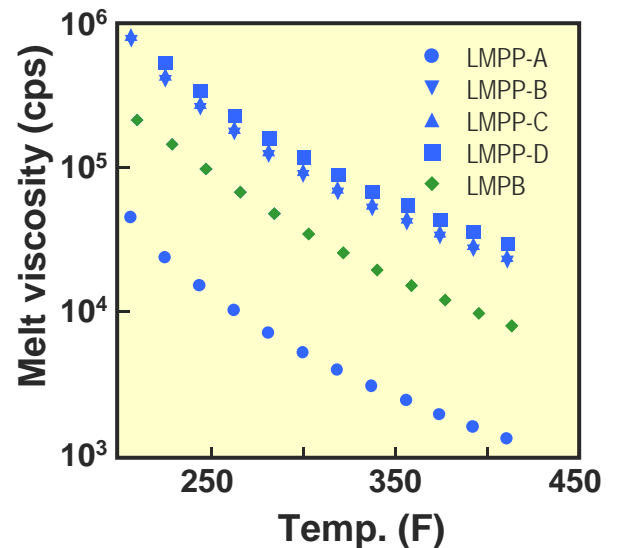


LMPP is softer than LMPB.

LMPB has relatively high tensile modulus and Low Tg.

Melting property

High melt flow at relatively low temperatures



Typical properties

	LMPP-A	LMPP-B	LMPP-C	LMPP-D	LMPB
Density (kg ³ /m)	870	870	870	870	890
Melting point (F)	165	165	120	200	160
Molecular weight	30,000	70,000	70,000	70,000	70,000
Molecular weight distribution	2	2	2	2	2
Tensile modulus (MPa)	60	60	45	280	280
Elongation at break (%)	200	800	800	600	200
Melt viscosity at 374F (cps)	1,700	40,000	40,000	40,000	9,500

The typical data represented herein were measured under certain specific condition.