

Moplen EP542R

Block copolymer



Product Description

Moplen EP542R is the polypropylene block copolymer manufactured by Ulsan PP under the license of **Lyondellbasell** using the **Spheripol** process. This grade is for use in injection molding of washing machine tub, thin-walled packaging, parts of electrical appliances, housewares, etc. **Moplen EP542R** resin meets the **FDA** requirements in the Code of Federal Regulations in **21 CFR 177.1520** for food contact and a flame rating of **UL94HB**.

Features	Optimized balance of stiffness and toughness / Low warpage / UL94 HB
Market	Consumer products, Rigid packaging
Application	Washing machine tub / Electrical appliance / Housewares

ASTM Data

Typical Properties	Nominal Value	Units	Test Method
Melt Flow Rate (230°C, 2.16kg)	30	g/10 min	ASTM D1238L
Density	0.9	g/cm ³	ASTM D1505
Flexural Modulus	13700	kg/cm ²	ASTM D790
Tensile Strength at Yield	280	kg/cm ²	ASTM D638
Elongation at Yield	6	%	ASTM D638
Izod Impact Strength (23°C)	8	kgfcm/cm	ASTM D256
Izod Impact Strength (-20°C)	4	kgfcm/cm	ASTM D256
Rockwell Hardness	95	R-Scale	ASTM D785
Vicat Softening Point	150	°C	ASTM D1525
HDT (0.46 N/mm ²)	120	°C	ASTM D648

1) The above values are typical property values for reference only, not be construed as specification limits.

2) Before using Ulsan PP product, users shall review carefully Seller's instructions for the use of such product and make their own independent determination of whether the product is suitable for the intended use and can be used safely and legally. If users fail to comply with Seller's restrictions and instructions for the use of the product or an obligation to notify Seller, if applicable, of each specific application before using such product in certain categories of application, users are solely liable for any injuries or damages resulting from their use of such product and Seller shall have no liability whatsoever.

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- iii. life-sustaining medical applications; or
- iv. lead, asbestos or MTBE related applications.

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- ii. U.S. FDA Class II, Health Canada Class II or Class III, and/or European Union Class II Medical Devices;
- iii. film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned Medical Devices;
- iv. packaging in direct contact with an active pharmaceutical ingredient and/or dosage form that is intended for inhalation, injection, intravenous, nasal, ophthalmic (eye), digestive, or topical (skin) administration;
- v. tobacco related products and applications;
- vi. electronic cigarettes and similar devices; or
- vii. pressure pipe or fittings that are considered a part or component of a nuclear reactor

※ All references to U.S. FDA, Health Canada, and European Union regulations include another country's equivalent regulatory classification.

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