

MDPE

MDPE Resin for Rotational Molding

▶ R905U

● Description

R905U is medium density linear polyethylene designed for rotational molding of products for highly complicated products. This ease of flow makes it possible to mold in complex molds with good filling of corners and narrow parts and good inside surface finish.

● Characteristics

- ▶ Good Processability
- ▶ High impact strength
- ▶ Long term UV stability

● Applications

- ▶ Industrial components
- ▶ Toy and Container
- ▶ Complex custom parts



● Physical properties

Properties	Test Method	Units	R905U
MI, 2.16kg@190 °C	ASTM D1238	g/10min	9.0
Density	ASTM D1505	g/cm ³	0.936
Tensile stress at break	ASTM D638	kgf/cm ²	190
Elongation at Break		%	>500
Flexural modulus	ASTM D790	kgf/cm ²	6,000
Izod impact strength(23 °C)	ASTM D256	kg ·cm/cm	50
Vicat softening point	ASTM D1525	°C	113
Brittleness temperature	ASTM D746	°C	< -80
Shore hardness	ASTM D2240	D scale	54
ESCR (F50)	ASTM D1693 (A) 50 °C, 100% Igepal	hrs	>200
Meets FDA Requirements	21 CFR 177.1520	-	Yes
UV-Stabilized			Yes

* Data shown above are representative values for reference purposes only, and not to be construed as specifications.



● Other Information

The information in this document can be used for reference only, not to be construed as specification. Customers are responsible for determine whether our product and information is suitable for their particular purpose and for the compliance with related law.

HANWHA TOTAL assumes no obligation or liability for the information in this document.

● Contacts

▶ **Product Information & Technical Services**

103, Dokgot 2-ro, Daesan-eup, Seosan-si, Chungcheongnam-do,
Korea, 31900

TEL : 82-41-660-6190 FAX : 82-41-660-6189

Disclaimer

This document is copyright of Hanwha Total petrochemical Co., Ltd. Any and all information and the values in this document are typical properties for reference, not to be confused with, or regarded as specification. Customers are responsible for determining whether our products and information are suitable for their particular purpose and for ensuring that Customer's location and handling practices are in compliance with laws and regulations. HANWHA TOTAL assumes no obligation or liability for the information in this document. NO EXPRESS WARRANTIES ARE GIVEN EXCEPT FOR ANY APPLICABLE WRITTEN WARRANTIES SPECIFICALLY PROVIDED BY HANWHA TOTAL. ALL IMPLIED WARRANTIES INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED. HANWHA TOTAL is entitled to alter, change or modify any of the content herein at any time without prior notice, but not under any duty to do so.

