

# MDPE

MDPE Resin for Rotational Molding

▶ R901U

## ● Description

R901U is medium density linear polyethylene resins for rotational molding applications. This grade is designed to be processed in conventional rotational molding equipment.

## ● Characteristics

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

## ● Applications

- ▶ Tanks for water and chemicals(Small, middle, large size)
- ▶ Bins for storage and transport(Small, middle, large size)
- ▶ Domestic or Industrial components
- ▶ Toys
- ▶ Leisure(Canoe, Kayak)



## ● Physical properties

Properties	Test Method	Units	R901U
MI, 2.16kg@190 °C	ASTM D1238	g/10min	5.0
Density	ASTM D1505	g/cm <sup>3</sup>	0.936
Tensile stress at break	ASTM D638	kgf/cm <sup>2</sup>	210
Elongation at Break		%	>500
Flexural modulus	ASTM D790	kgf/cm <sup>2</sup>	6,200
Izod impact strength(23 °C)	ASTM D256	kg ·cm/cm	50
Vicat softening point	ASTM D1525	°C	115
Brittleness temperature	ASTM D746	°C	< -80
Shore hardness	ASTM D2240	D scale	54
ESCR (F50)	ASTM D1693 (A) 50 °C, 100% Igepal	hrs	>300
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.*

