

Hanwha Total PE R903U

High Density Polyethylene
HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:
R903U resin is in pellet form and is a linear low density polyethylene designed for rotational molding application.

General Information			
Features	General Purpose		
	Good Chemical Resistance		
	Good Flow		
	Good Processability		
	Good UV Resistance		
	High ESCR (Stress Crack Resist.)		
	High Impact Resistance		
	Low Density		
	Medium Rigidity		
Uses	General Purpose		
	Industrial Applications		
	Outdoor Applications		
	Tanks		
	Toys		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Rotational Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.938	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.2	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (F50)	1000	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	63		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	20.0	MPa	
Break	24.0	MPa	
Tensile Elongation (Break)	1000	%	ASTM D638
Apparent Bending Modulus	760	MPa	ASTM D747

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	540	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	115	°C	ASTM D1525 ¹
NOTE			
1.	Loading 1 (10 N)		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

