Hanwha Total PE R902U

High Density Polyethylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

R902U is a linear low-density polyethylene resin for rotational molding applications. This grade is available in pellet form. This grade is designed to be processed in conventional rotational molding equipment.

General Information			
Additive	UV Stabilizer		
Features	General Purpose Good Chemical Resistance Good Flow Good Processability Good Surface Finish High Impact Resistance Low Density		
Uses	General Purpose Industrial Applications Industrial Tanks Outdoor Applications Toys Water Sports Equipment		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Rotational Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.933	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (F50)	1000	hr	ASTM D1693
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	62		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Yield	15.7	MPa	
Break	19.6	MPa	
Tensile Elongation (Break)	1100	%	ASTM D638
Apparent Bending Modulus	550	MPa	ASTM D747

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	540	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	-80.0	°C	ASTM D746
Vicat Softening Temperature	112	°C	ASTM D1525 [1]
NOTE			
1.	Loading 1 (10 N)		

Recommended distributors for this material

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