

Hanwha Total PE R901U

Linear Low Density Polyethylene
HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:
R901U 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		
	Medium Rigidity		
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	0.937	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (F50)	1000	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	63		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	16.7	MPa	
Break	20.6	MPa	
Tensile Elongation (Break)	1200	%	ASTM D638

Apparent Bending Modulus	710	MPa	ASTM D747
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	490	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-80.0	°C	ASTM D746
Vicat Softening Temperature	113	°C	ASTM D1525 ¹

NOTE

1. Loading 1 (10 N)

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