

# Hanwha Total PE R902S

High Density Polyethylene  
HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:  
R902 is a linear low-density polyethylene resin for steel pipe coating.

General Information			
Features	Ductile		
	Good Adhesion		
	Good Impact Resistance		
	Good Processability		
	Good Surface Finish		
	High ESCR (Stress Crack Resist.)		
	Low Density		
	Scratch Resistant		
Uses	Pipe Coatings		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Extrusion Coating		
Physical	Nominal Value	Unit	Test Method
Density	0.935	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (F50)	200	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	14.7	MPa	
Break	19.6	MPa	
Tensile Elongation (Break)	900	%	ASTM D638
Flexural Modulus	686	MPa	ASTM D790
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	112	°C	ASTM D1525 <sup>1</sup>
NOTE			
1.	Loading 1 (10 N)		

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