



# PP 651H (Provisional Data Sheet)

PP Random co-polymer for PIPE

## Product Description

PP 651H is specially designed for transport of hot and cold drinking water. This grade is highly heat stabilized and specially formulated for extraction resistance.

## Typical Applications

PP 651H can be used for hot & cold water pipes & fittings.

## Typical data

Properties	Unit	Value <sup>(1)</sup>	ASTM Method
<b>Resin Properties</b>			
Melt Flow Rate @ 190°C & 5.0kg	g/10 min.	0.4	D 1238
Melt Flow Rate @ 230°C & 2.16kg	g/10 min	0.3	D 1238
Density @ 23°C	kg/m <sup>3</sup>	897	D 792
<b>Mechanical Properties <sup>(1)</sup></b>			
Tensile Strength @ Yield	MPa	28	D 638
Tensile Elongation @ Yield	%	13	D 638
Flexural Modulus (1% Secant)	MPa	900	D 790A
Notched Izod Impact Strength @ 23°C	J/m	220	D 256
Rockwell Hardness, R-Scale	-	93	D 785
<b>Thermal Properties <sup>(2)</sup></b>			
Vicat Softening Point	°C	135	D 1525B
Heat Deflection Temperature @ 455 KPa	°C	80	D 648

(1) Typical values; not to be construed as specification limits.

(2) Based on injection molded specimens.

## Processing Conditions

Barrel temperature range: 200 - 225°C

Mold Shrinkage: 1.2 - 2.5% depending on wall thickness and processing conditions.

Mold Temperature: Normally 15 - 40°C, up to 65°C for thick parts.

## Food Regulation

PP 651H is suitable for food contact application. Detailed information is provided in the relevant Material Safety Data Sheet and for additional specific information please contact SABIC local representative for certificate.

## Storage and Handling

PP resin should be stored to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably don't exceed 50°C. SABIC would not give warranty to bad storage conditions which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PP resin within 6 months after delivery.

---

Saudi Basic Industries Corporation, P.O.Box 5101, Riyadh 11422, Kingdom of Saudi Arabia  
Tel: 966 1 2258000  
Fax: 966 1 2259000

Technical Marketing  
Tel: 966 1 2659166  
Fax: 966 1 2653544  
Toll-free 800 1245577

PP Sales:  
Fax: 966 1 2258771  
Website: [www.sabic.com](http://www.sabic.com)

---

*NOTICE: The information and data contained herein are believed to be correct and given in good faith, but because of the many particular factors which are outside our knowledge and control and affect the use of product, no warranty is given or is to be implied with respect to such information, nor do we offer any immunity against infringement.*