



PP 651H

PP Random co-polymer for PIPE

Product Description

PP 651H is a high molecular weight, low melt flow rate polypropylene random copolymer (PP-R) natural colored & specially designed for transport of hot and cold drinking water. This grade is highly heat stabilized and specially formulated for extraction resistance with improved throughput & gloss.

Typical Applications

Hot / Cold water pipes & fittings.

Typical data

Properties	Unit	Value ⁽¹⁾	ASTM Method
Resin Properties			
Color	-	Natural	
MRS classification	Mpa	8	ISO 9080
Melt Flow Rate @ 190°C & 5.0kg	g/10 min.	0.4	D 1238
Melt Flow Rate @ 230°C & 2.16kg	g/10 min	0.25	D 1238
Density @ 23°C	kg/m ³	897	D 792
Mechanical Properties ⁽¹⁾			
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
Thermal Properties ⁽²⁾			
Vicat Softening Point	°C	135	D 1525A
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 - 240°C

Mold Shrinkage: 1.2 - 2.0% 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. For the certificate please contact SABIC local representative.

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. Detailed information is provided in the relevant Material Safety Data Sheet (MSDS).

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