

SABIC® PP 651H

Polypropylene Random Copolymer

SABIC Americas, Inc.

Message:

PP random co-polymer for Pipe

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.

General Information			
Additive	Heat Stabilizer		
Features	Food Contact Acceptable		
	Heat Stabilized		
	Random Copolymer		
Uses	Fittings		
	Piping		
	Potable Water Applications		
Forms	Pellets		
Processing Method	Injection Molding		
	Pipe Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity ¹	0.897	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/5.0 kg	0.40	g/10 min	
230°C/2.16 kg	0.30	g/10 min	
Molding Shrinkage - Flow	1.2 to 2.0	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, Injection Molded)	93		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Injection Molded)	28.0	MPa	ASTM D638
Tensile Elongation (Yield, Injection Molded)	13	%	ASTM D638
Flexural Modulus - 1% Secant (Injection Molded)	900	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Injection Molded)	220	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed)	80.0	°C	ASTM D648
Vicat Softening Temperature	135	°C	ASTM D1525 ²
Injection	Nominal Value	Unit	
Rear Temperature	200 to 240	°C	
Middle Temperature	200 to 240	°C	
Front Temperature	200 to 240	°C	
Mold Temperature	15.0 to 40.0	°C	
NOTE			
1.	23°C		
2.	Rate B (120°C/h)		

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