

SABIC PP 651H Polypropylene Random Copolymer for PIPE

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Molded

Material Notes:

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. Information provided by SABIC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-PP-651H-Polypropylene-Random-Copolymer-for-PIPE.php

Physical Properties	Metric	English	Comments
Density	0.897 g/cc	0.0324 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.012 - 0.025 cm/cm	0.012 - 0.025 in/in	
Melt Flow	0.30 g/10 min	0.30 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	
	0.40 g/10 min	0.40 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 190 °C	@Load 11.0 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	93	93	ASTM D785
Tensile Strength, Yield	28.0 MPa	4060 psi	ASTM D638
Elongation at Yield	13 %	13 %	ASTM D638
Flexural Modulus, 1% Secant	900 MPa	131000 psi	ASTM D790A
Izod Impact, Notched	2.20 J/cm	4.12 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	80.0 °C	176 °F	ASTM D648
Vicat Softening Point	135 °C	275 °F	ASTM D1525B

Processing Properties	Metric	English	Comments
Processing Temperature	200 - 230 °C	392 - 446 °F	Barrel Temperature
Mold Temperature	15.0 - 40.0 °C	59.0 - 104 °F	

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