Hanwha Total PP RP100

Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

RP100 is a propylene-ethylene copolymer grade, designed for hot and cold water supply systems. RP100 has excellent creep properties and processability by extrusion. RP100 is recommended for pressure pipe manufacturing, including tap water, underfloor heating and industrial applications. Pipes of RP100 complys with the quality requirements of the DIN 8078 or ISO 15874. RP100 is available in pellet form as natural.

General Information				
Features	Copolymer			
	Weldable			
	Workability, good			
	Good creep resistance			
	Heat resistance, high			
Uses	Industrial application			
	Piping system			
Agency Ratings	DIN 8078			
	ISO/DIS 15874			
Appearance	Natural color			
Forms	Particle			
Processing Method	Pipeline extrusion molding			
J	Extrusion			
Physical	Nominal Value	Unit	Test Method	
Density	0.900	g/cm³	ASTM D1505	
Melt Mass-Flow Rate (MFR) (230°C/2.16				
kg)	0.25	g/10 min	ASTM D1238	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Strength			ASTM D638	
Yield	26.5	MPa	ASTM D638	
Fracture	22.6	МРа	ASTM D638	
Tensile Elongation (Break)	450	%	ASTM D638	
Flexural Modulus	883	MPa	ASTM D790	
Impact	Nominal Value	Unit	Test Method	
Notched Izod Impact (0°C)	88	J/m	ASTM D256	
Thermal	Nominal Value	Unit	Test Method	
THOTHAI				

Vicat Softening Temperature	130	°C	ASTM D1525 ¹
Melting Temperature	142	°C	

Additional Information

Oxidation Induction Time, ISO TR10837, 210°C: >30 minHydrostatic Pressure Test, ISO 1167, 16 MPa, 20°C: >1 hrsHydrostatic Pressure Test, ISO 1167, 3.5 MPa, 95°C: >1000 hrsHydrostatic Pressure Test, ISO 1167, 1.9 MPa, 110°C: >8760 hrsM.R.S., ISO TR9080: >8 MPaS.C.G., ISO 13479: >1000 hrs

Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	180 - 220	°C	
Cylinder Zone 2 Temp.	180 - 220	°C	
Cylinder Zone 3 Temp.	180 - 220	°C	
Cylinder Zone 4 Temp.	180 - 220	°C	
Cylinder Zone 5 Temp.	180 - 220	°C	
Adapter Temperature	180 - 220	°C	
Die Temperature	180 - 220	°C	
NOTE			

1. 压力1 (10N)

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533 Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

