

Hanwha Total PP RP100E140

Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

RP100E140 is a propylene-ethylene copolymer grade, designed for hot and cold water supply systems. RP100E140 has excellent creep properties and processability by extrusion. RP100E140 is recommended for pressure pipe manufacturing, including tap water, underfloor heating and industrial applications. Pipes of RP100E140 complys with the quality requirements of the DIN 8078 or ISO 15874. RP100E140 is available in pellet form as blue.

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	Blue		
Forms	Particle		
Processing Method	Pipeline extrusion molding		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	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	27.5	MPa	ASTM D638
Fracture	23.5	MPa	ASTM D638
Tensile Elongation (Break)	450	%	ASTM D638
Flexural Modulus	912	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
Deflection Temperature Under Load (0.45 MPa, Unannealed)	90.0	°C	ASTM D648

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)

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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



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