Borealis PP RA130E

Polypropylene Random Copolymer Borealis A/S



Product Description

RA130E is a high molecular weight, low melt flow rate polypropylene random copolymer (PP-R) compound and is natural coloured.

The product is used for single as well as for multilayer pipes, where you then differentiate between plastic multilayer and aluminium multilayer pipes.

RA130E is intended to fulfill following standards and regulations, in case of appropriate industrial manufacturing standard procedures applied and a continuous quality system is implemented.

- DIN 8078
- DIN 8077
- EN ISO 15874

The pipe system will show high durability, no corrosion, good weldability, homogeneous joints, low tendency to incrustrations and fast and easy installation.

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Material Status	 Commercial: Active 		
Availability	 North America 		
Features	DurableGood Corrosion ResistanceGood Impact ResistanceGood Processability	High Heat ResistanceHigh Molecular WeightLow FlowLow to No Odor	Low to No TasteRandom CopolymerRecyclable MaterialWeldable
Uses	 Fittings 	 Piping 	 Plumbing Parts
Agency Ratings	• DIN 8077	• DIN 8078	 ISO/DIS 15874
Appearance	 Natural Color 		
Forms	 Pellets 		
Processing Method	Extrusion	Pipe Extrusion	

Physical	Nominal Value Unit	Test Method
Density	0.905 g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.25 g/10 min	ISO 1133
Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	900 MPa	ISO 527-2/1
Tensile Stress (Yield)	25.0 MPa	ISO 527-2/50
Tensile Strain (Yield)	14 %	ISO 527-2/50
Flexural Modulus ²	800 MPa	ISO 178
Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179/1eA
-20°C	2.0 kJ/m²	
0°C	3.5 kJ/m²	
23°C	20 kJ/m²	
Charpy Unnotched Impact Strength		ISO 179/1eU
-20°C	40 kJ/m²	

Thermal	Nominal Value Unit	Test Method	
CLTE - Flow (0 to 70°C)	0.00015 cm/cm/°C	DIN 53752	
Thermal Conductivity	0.24 W/m/K	DIN 52612	

No Break

No Break

Extrusion	Nominal Value Unit	
Cylinder Zone 1 Temp.	180 to 210 °C	
Cylinder Zone 2 Temp.	180 to 210 °C	
Cylinder Zone 3 Temp.	180 to 210 °C	
Cylinder Zone 4 Temp.	180 to 210 °C	
Cylinder Zone 5 Temp.	180 to 210 °C	
Melt Temperature	220 °C	
Die Temperature	210 to 220 °C	

Extrusion Notes

0°C

23°C

Head Temperature: 210 to 220°C

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Notes

¹ Typical properties: these are not to be construed as specifications.

² 2.0 mm/min