Borealis PP RA130E

Polypropylene Random Copolymer

Borealis AG

Message:

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.

General Information	
Features	High molecular weight
	Impact resistance, good
	Weldable
	Recyclable materials
	Workability, good
	Good corrosion resistance
	Low liquidity
	Heat resistance, high
	Durability
	The smell is low to none
	The smell is low to none
	Random copolymer
Uses	Pipe components
	Piping system
	Accessories
Agency Ratings	DIN 8077
	DIN 8078
	ISO/DIS 15874
Appearance	Natural color
Forms	Particle
Processing Method	Pipeline extrusion molding
	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 [1]	800	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	2.0	kJ/m^2	ISO 179/1eA
0°C	3.5	kJ/m^2	ISO 179/1eA
23°C	20	kJ/m^2	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	40	kJ/m^2	ISO 179/1eU
0°C	No Break		ISO 179/1eU
23°C	No Break		ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
CLTE - Flow (0 to 70°C)	1.5E-4	cm/cm/°C	DIN 53752
Thermal Conductivity	0.24	W/m/K	DIN 52612
Extrusion	**Nominal Value**	**Unit**	
Cylinder Zone 1 Temp.	180 - 210	°C	
Cylinder Zone 2 Temp.	180 - 210	°C	
Cylinder Zone 3 Temp.	180 - 210	°C	
Cylinder Zone 4 Temp.	180 - 210	°C	
Cylinder Zone 5 Temp.	180 - 210	°C	
Melt Temperature	220	°C	
Die Temperature	210 - 220	°C	
Extrusion instructions			
Head Temperature: 210 to 220°C			
NOTE			
1.	2.0 mm/min		

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


WECHAT