

Borealis PP RA130E-8427

Polypropylene Random Copolymer

Borealis AG

Message:

RA130E-8427 is a high molecular weight, low melt flow rate polypropylene random copolymer (PP-R) compound and is grey 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-8427 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 incrustations and fast and easy installation.

General Information			
Features	High molecular weight		
	Impact resistance, good		
	Weldable		
	Workability, good		
	Good corrosion resistance		
	Low liquidity		
	Heat resistance, high		
	Durability		
	The smell is low to none		
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	Random copolymer		
Uses	Pipe components		
	Piping system		
	Accessories		
Agency Ratings	DIN 8077		
	DIN 8078		
	ISO/DIS 15874		
Appearance	Grey		
Forms	Particle		
Processing Method	Pipeline extrusion molding		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm ³	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	210 - 220	°C	
Die Temperature	210 - 220	°C	
Extrusion instructions			
Head Temperature: 210 to 220°C			
NOTE			
1.	2.0 mm/min		

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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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