

Borealis PP RA130E-8427 (industrial)

Polypropylene Random Copolymer

Borealis AG

Message:

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

General Information			
Features	High molecular weight		
	Impact resistance, good		
	Weldable		
	Recyclable materials		
	Workability, good		
	Low liquidity		
	Durability		
	Thermal stability, good		
Uses	Industrial application		
	Pipe components		
	Piping system		
	Accessories		
Agency Ratings	DIN 8077		
	DIN 8078		
	ISO 15494		
Appearance	Grey		
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 (1.00 mm)	900	MPa	ISO 527-2
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
Heat Deflection Temperature			
0.45 MPa, not annealed	65.0	°C	ISO 75-2/B
1.8 MPa, not annealed	45.0	°C	ISO 75-2/A
Vicat Softening Temperature	63.0	°C	ISO 306/B50
CLTE - Flow	1.4E-4	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.25	W/m/K	DIN 52612
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	180 - 210	°C	
Melt Temperature	210 - 220	°C	
Die Temperature	210 - 220	°C	
Extrusion instructions			
Head Temperature: 210 - 220 °C			
NOTE			
1.	2.0 mm/min		

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