Borealis PP RA130E-1005

Polypropylene Random Copolymer

Borealis AG

Message:

RA130E-1005 is a high molecular weight, low melt flow rate polypropylene random copolymer (PP-R) compound and is beige coloured.

General Information	
Features	High molecular weight Lower odor transfer Lower taste transfer Impact resistance, good Weldable Recyclable materials Workability, good Low liquidity Durability Thermal stability, good
Uses	Lining Industrial application Pipe components Piping system Accessories
Agency Ratings	DIN 8077 DIN 8078 ISO 15874
Appearance	Beige

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 (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/m²	ISO 179/1eA
0°C	3.5	kJ/m²	ISO 179/1eA
23°C	20	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	40	kJ/m²	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	ISO 11359-2
Thermal Conductivity	0.24	W/m/K	DIN 52612
Extrusion	**Nominal Value**	**Unit**	
Cylinder Zone 1 Temp.	180 - 210	°C	
Melt Temperature	220	°C	
Die Temperature	210 - 220	°C	
Extrusion instructions			
Head Temperature: 210 - 220 °C			
NOTE			
1.	2.0 mm/min		

Recommended distributors for this material

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