

Borealis RA130E Polypropylene Random Copolymer

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Copolymer

Material Notes:

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

Applications RA130E is recommended for the production of PP-R pipes and fittings used in heating, plumbing, domestic water, relining, and industrial applications. The product is used for single as well as for multilayer pipes, where you then differentiate between plastic multilayer and aluminum multilayer pipes. Specifications: DIN 8078; DIN 8077; and EN ISO 15874. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-RA130E-Polypropylene-Random-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.905 g/cc	0.0327 lb/in ³	ISO 1183
Melt Flow	0.25 g/10 min @Load 2.16 kg, Temperature 230 °C	0.25 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	25.0 MPa	3630 psi	50mm/min; ISO 527-2
Elongation at Yield	13.5 %	13.5 %	50mm/min; ISO 527-2
Tensile Modulus	0.900 GPa	131 ksi	1mm/min; ISO 527
Flexural Modulus	0.800 GPa	116 ksi	2mm/min; ISO 178
Charpy Impact Unnotched	4.00 J/cm ² @Temperature -20.0 °C	19.0 ft-lb/in ² @Temperature -4.00 °F	ISO 179/1eU
	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179/1eU
	NB @Temperature 0.000 °C	NB @Temperature 32.0 °F	ISO 179/1eU
Charpy Impact, Notched	0.200 J/cm ² @Temperature -20.0 °C	0.952 ft-lb/in ² @Temperature -4.00 °F	ISO 179/1eA
	0.350 J/cm ² @Temperature 0.000 °C	1.67 ft-lb/in ² @Temperature 32.0 °F	ISO 179/1eA
	2.00 J/cm ² @Temperature 23.0 °C	9.52 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	150 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	83.3 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	DIN 53752
	@Temperature 0.000 - 70.0 $^{\circ}\text{C}$	@Temperature 32.0 - 158 $^{\circ}\text{F}$	
Thermal Conductivity	0.240 W/m-K	1.67 BTU-in/hr-ft ² - $^{\circ}\text{F}$	DIN 52612

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	180 - 210 $^{\circ}\text{C}$	356 - 410 $^{\circ}\text{F}$	
Die Temperature	210 - 220 $^{\circ}\text{C}$	410 - 428 $^{\circ}\text{F}$	
Melt Temperature	220 $^{\circ}\text{C}$	428 $^{\circ}\text{F}$	
Head Temperature	210 - 220 $^{\circ}\text{C}$	410 - 428 $^{\circ}\text{F}$	

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