

Borealis RA130E-8427 Polypropylene Random Copolymer

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

Material Notes:

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

Applications: domestic water, heating, relining, plumbing, and industrial applications. 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-8427-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 $^{\circ}\text{F}$	cylinder
Die Temperature	210 - 220 $^{\circ}\text{C}$	410 - 428 $^{\circ}\text{F}$	
Melt Temperature	210 - 220 $^{\circ}\text{C}$	410 - 428 $^{\circ}\text{F}$	
Head Temperature	210 - 220 $^{\circ}\text{C}$	410 - 428 $^{\circ}\text{F}$	

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