

Borealis RA130E-6020 Polypropylene Random Copolymer

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

Material Notes:

RA130E-6020 is a high molecular weight, low melt flow rate polypropylene random copolymer (PP-R) compound and is green 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-6020-Polypropylene-Random-Copolymer.php

| Physical Properties | Metric | English | Comments |
|---------------------|---|---|----------|
| Density | 0.905 g/cc | 0.0327 lb/in ³ | ISO 1183 |
| Melt Flow | 0.30 g/10 min @Load 2.16 kg, Temperature 230 °C | 0.30 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 $^{\circ}\text{F}$ | |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China