

Borealis Borcoat™ GA700E-7032 Syntactic Polypropylene for Steel Pipe Coating

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

Borcoat GA700E-7032 is a grey colored syntactic, high impact polypropylene with high thermal insulation capacity and high compressive strength. Borcoat GA700E-7032 is recommended as thermal insulation material for offshore deep water flow lines. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Borcoat-GA700E-7032-Syntactic-Polypropylene-for-Steel-Pipe-Coating.php

| Physical Properties | Metric | English | Comments |
|---------------------|--|--|----------|
| Density | 0.700 g/cc | 0.0253 lb/in ³ | ISO 1183 |
| Melt Flow | 1.0 g/10 min @Load 2.16 kg, Temperature 230 °C | 1.0 g/10 min @Load 4.76 lb, Temperature 446 °F | ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|----------|----------|---------------------------|
| Tensile Strength, Yield | 11.0 MPa | 1600 psi | At 50 mm/min; ISO 527-2 |
| Elongation at Break | >= 50 % | >= 50 % | 50 mm/min; ISO 527-3 |
| Tensile Modulus | 2.00 GPa | 290 ksi | At 1 mm/min; ISO 178 |
| Compressive Strength | 17.0 MPa | 2470 psi | 5% Compression; ASTM D695 |

| Thermal Properties | Metric | English | Comments |
|-----------------------|-------------|------------------------------------|-------------------|
| Thermal Conductivity | 0.160 W/m-K | 1.11 BTU-in/hr-ft ² -°F | ASTM C 177 |
| Vicat Softening Point | 148 °C | 298 °F | A (10 N); ISO 306 |

| Processing Properties | Metric | English | Comments |
|--------------------------|--------------|--------------|----------|
| Front Barrel Temperature | 220 - 240 °C | 428 - 464 °F | |
| Melt Temperature | 225 - 235 °C | 437 - 455 °F | |
| Head Temperature | 220 - 230 °C | 428 - 446 °F | |

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