

Minelco FireCarb TEG-160 Expandable Graphite

Category : Carbon , Graphite , Other Engineering Material , Additive/Filler for Polymer

Material Notes:

High quality crystalline flake graphite that has a medium to high source of carbon, typically 80 to 99%. Expandable graphite belongs to a group of products called "intumescent." The primary property of intumescent is their ability to expand when heated. On exposure to heat, the retained solutions within FireCarb produce a gas that expands and forces open the graphite platelets. The expansion that expandable graphite offers (up to 350 x volume at 1000°C) makes it more effective than conventional intumescent. This expansion has the added benefit of creating high pressure, especially when mechanically restricted, and at the same time an insulating carbonaceous char is formed which protects the substructure from the heat source. Typically expansion starts at 170°C, however delayed expansion products can be manufactured to the customers specification. Applications: Passive Fire Protection, Intumescent Coatings, Plastic & Rubber Compounds, Foundry

Order this product through the following link:

http://www.lookpolymers.com/polymer_Minelco-FireCarb-TEG-160-Expandable-Graphite.php

| Physical Properties | Metric | English | Comments |
|---------------------|------------|------------|------------------|
| Volatiles | <= 12 % | <= 12 % | |
| Particle Mesh Size | >= 60 Mesh | >= 60 Mesh | 80%; ASTM E11-87 |
| pH | 4.0 - 7.0 | 4.0 - 7.0 | |

| Component Elements Properties | Metric | English | Comments |
|-------------------------------|--------|---------|----------|
| Carbon, C | 90 % | 90 % | |

| Processing Properties | Metric | English | Comments |
|-----------------------|----------|----------|----------|
| Moisture Content | <= 1.0 % | <= 1.0 % | |

| Descriptive Properties | Value | Comments |
|------------------------|--------------|----------|
| Appearance | Black flakes | |
| Expansion, ml/gm | 85 | 1000°C |

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