

Total Lacqrene® 4431 Flame Retardant Polystyrene (discontinued **)

Category : Polymer , Thermoplastic , Polystyrene (PS)

Material Notes:

LACQRENE ® 4240 is a high impact, flame retardant polystyrene with excellent thermal stability. Application Television back covers Information provided provided by Total Petrochemicals. Total Petrochemicals includes former Fina and Atofina plastics product lines.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-Lacqrene-4431-Flame-Retardant-Polystyrene-nbspdiscontinued-.php

| Physical Properties | Metric | English | Comments |
|-----------------------|------------------------------------------------------|------------------------------------------------------|-------------|
| Density | 1.15 g/cc | 0.0415 lb/in ³ | ASTM D1505 |
| Water Absorption | <= 0.10 % | <= 0.10 % | ASTM D570 |
| Linear Mold Shrinkage | 0.0040 - 0.0070 cm/cm | 0.0040 - 0.0070 in/in | |
| Melt Flow | 8.0 g/10 min @Load 5.00 kg, Temperature 200 °C | 8.0 g/10 min @Load 11.0 lb, Temperature 392 °F | ASTM D1238G |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|----------|----------|------------|
| Tensile Strength, Yield | 22.6 MPa | 3270 psi | ASTM D638M |
| Elongation at Break | 50 % | 50 % | ASTM D638M |
| Flexural Modulus | 1.96 GPa | 284 ksi | ASTM D790 |

| Thermal Properties | Metric | English | Comments |
|-----------------------|---------|---------|------------------|
| Vicat Softening Point | 87.0 °C | 189 °F | 50N; ASTM D1525B |
| | 95.0 °C | 203 °F | 10N; ASTM D1525A |

| Processing Properties | Metric | English | Comments |
|------------------------|-----------|-----------|----------|
| Processing Temperature | <= 240 °C | <= 464 °F | |

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