



DuraPET 0624FR

Product Description

DuraPET 0624FR is a flame retardant modified PET material that demonstrates extreme high impact, wear characteristics, and excellent chemical resistance. It is a highly durable material that can withstand outdoor environmental conditions. It exhibits ductile failure as low as - 20°C and can withstand higher temperatures up to 180°C.

General

Material Status: Commercial: Active

Availability: Globally

UL Yellow Card: E494117-1755339

Features: Low Crystallinity/Extreme High Toughness

Uses: Housings, profile, sheet applications in medical equipment, building, construction, and transportation

Processing Method: Injection Molding, Extrusion, Thermoforming, Blown Film

ASTM & ISO Properties

| Physical | Nominal Value | Unit | Test Method |
|-------------------------|----------------------|-------------|--------------------|
| Density | 1.27 | g/cc | ISO 1183 |
| Molding Shrinkage | 0.60 | % | ISO 294-4 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 314,200 | psi | ASTM D638 |
| Tensile Strength | 7,180 | psi | ASTM D638 |
| Flexural Modulus | 357,800 | psi | ASTM D790 |
| Elongation @ Break | 140 | % | ASTM D638 |
| Impact | Nominal Value | Unit | Test Method |
| Gardner Impact (23°C) | >600 | in-lb | ASTM D5420 |
| Gardner Impact (- 20°C) | >585 | in-lb | ASTM D5420 |

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| <u>Rheological</u> | <u>Nominal Value</u> | <u>Unit</u> | <u>Test Method</u> |
|---------------------------------|-----------------------------|--------------------|---------------------------|
| Melt Flow Rate (285°C, 2.16 Kg) | 9.3 | g/10 min | ASTM D1238 |
| <u>Flammability</u> | <u>Nominal Value</u> | <u>Unit</u> | <u>Test Method</u> |
| Flame Rating | | | UL 94 |
| 1.5 mm | V0 | | |
| 3.0 mm | V0 | | |

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