

Topolymer®9210-851EJ012000

产品描述:

Topolymer®9210-851EJ012000是一种以PP/EPDM为基材的热塑性动态硫化弹性体材料。其具有很宽的应用范围,例如用于垫圈、密封系统、罩盖、电子电器领域以及其它对柔韧性和一致性有要求的领域。**Topolymer®9210-851EJ012000**可在常规热塑性注塑成型、挤出成型或吹塑成型设备上加工。

性能特征:

优异的耐臭氧性、优异的耐挠曲疲劳性;聚烯烃基产品,可完全回收利用;符合欧盟和中国RoHS法规。

颜色:

本色(可使用以PP-或者PE-为载体的色母进行着色)。

加工工艺:

挤出、注塑、吹塑等。

典型物性:

| 硬度 | 典型值 | 单位 | 测试方法 |
|--|------|---------------------|-------------|
| 硬度(Hardness,5S) | 86A | Shore A | ASTM D-2240 |
| 物理性能 | 典型值 | 单位 | 测试方法 |
| 比重(Specific Gravity) | 0.97 | g/cm ³ | ASTM D-792 |
| 弹性 | 典型值 | 单位 | 测试方法 |
| 抗拉强度(Tensile Strength) | 99 | Kgf/cm ² | ASTM D-412 |
| 100%定伸应力(100% Tensile Strength) | 57 | Kgf/cm ² | ASTM D-412 |
| 断裂延伸率(Elongation at Break) | 520 | % | ASTM D-412 |
| 撕裂强度(Tear Strength-Across Flow) | 57 | KN/m | ASTM D624 |
| 压缩永久变形(Compression Set 70°C×22h) | 40 | % | ASTM D-395B |
| 热性能 | 典型值 | 单位 | 测试方法 |
| 脆化温度(Brittleness Temperature) | -60 | °C | ASTM D746 |
| 老化 | 典型值 | 单位 | 测试方法 |
| 热空气老化拉伸强度变化率(Change in Tensile Strength In Air 150°C×168h) | -9 | % | ASTM D573 |
| 热空气老化延伸率变化率(Change in Ultimate Elongation In Air 150°C×168h) | -18 | % | ASTM D573 |
| 热空气中邵氏硬度的变化率(Change in Durometer Hardness in Air 150°C×168h) | +1 | Shore A | ASTM D-2240 |

注:以上数据为产品典型值,不作为质保承诺。

Add: 10Xiyuan Road, Tianmu lake industrial park, Liyang city, Jiangsu Province,P.R.C

地址:江苏省溧阳市天目湖工业园区溪缘路10号

Tel: 86-519-87966118

Fax: 86-519-87966228

E-mail: tpe@topolymer.com

成型条件:

| 注射 | 典型值 |
|---|-------------|
| 干燥温度 | 80℃ |
| 干燥时间 | 3.0hr |
| 建议的最大水分含量 | 0.08% |
| 建议的最大回收料比例 | 20% |
| 螺杆后区温度 | 175-190℃ |
| 螺杆中区温度 | 180-195℃ |
| 螺杆前区温度 | 185-200℃ |
| 射嘴温度 | 185-210℃ |
| 模具温度 | 25-55℃ |
| 注射速度 | 快速 |
| 背压 | 0.35-0.7MPa |
| 螺杆转速 | 100-200rpm |
| 合模力 | 40-70MPa |
| 螺杆长径比 | 16:1-24:1 |
| 螺杆压缩比 | 2:1-4:1 |
| 注射说明: Topolymer®TPV 与 PVC 不相容, 加工 Topolymer®TPV 前后不要在设备中残留 PVC 物料。 | |
| 挤出 | 典型值 |
| 干燥温度 | 80℃ |
| 干燥时间 | 3.0hr |
| 熔体温度 | 190-220℃ |
| 模具温度 | 190-220℃ |
| 挤出说明: Topolymer®TPV 与 PVC 不相容, 加工 Topolymer®TPV 前后不要在设备中残留 PVC 物料。 | |

储存包装:

Topolymer® 9210-851EJ012000 用内衬 PP 的纸袋包装, 25kg/包。

本产品常温通风及不存在 PVC 条件下可保存十二个月, 如超出此时间, 建议使用前进行性能检测, 并与出厂性能指标对比确认。详细资料请参阅物质安全资料表。

Topolymer® 9210-851EJ012000**Production Description:**

Topolymer® 9210-851EJ012000 is a heat stabilized PP/EPDM based Thermoplastic Vulcanized Elastomer(TPV). This compound is intended for use in a wide range of applications such as gaskets, seals, covers, electronics or other parts where softness and conformity are needed. **9210-851EJ012000** can be processed using Injection Molding, Extrusion, Blow molding or other melt processing techniques.

Features:

Good resistance to ozone and excellent flex fatigue resistance.
EU and China RoHS compliant.
It is polyolefin based and completely recyclable.

Color:

Natural Color(Use PP- or PE-based carrier for color concentrates).

Typical Property:

| Hardness | Typical Value | Unit | Test Based on |
|---|---------------|---------------------|---------------|
| Hardness,5S | 86A | Shore A | ASTM D-2240 |
| Physical | Typical Value | Unit | Test Based on |
| Specific Gravity | 0.97 | g/cm ³ | ASTM D-792 |
| Elastomers | Typical Value | Unit | Test Based on |
| Tensile Strength | 99 | Kgf/cm ² | ASTM D-412 |
| 100% Tensile Strength | 57 | Kgf/cm ² | ASTM D-412 |
| Elongation at Break | 520 | % | ASTM D-412 |
| Tear Strength-Across Flow | 57 | KN/m | ASTM D624 |
| Compression Set 70°C×22h | 40 | % | ASTM D-395B |
| Thermal | Typical Value | Unit | Test Based on |
| Brittleness Temperature | -60 | °C | ASTM D746 |
| Aging | Typical Value | Unit | Test Based on |
| Change in Tensile Strength In Air 150°C×168h | -9 | % | ASTM D573 |
| Change in Ultimate Elongation In Air 150°C×168h | -18 | % | ASTM D573 |
| Change in Durometer Hardness in Air 150°C×168h | +1 | Shore A | ASTM D-2240 |

The data are intended as a general guide only, makes no guarantee of results and assumes no obligation or liability.

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Processing Recommendation:

| Injection | Typical Value |
|---|---------------|
| Drying Temperature | 80°C |
| Drying Time | 3.0hr |
| Suggested Max Moisture | 0.08% |
| Suggested Max Regrind | 20% |
| Rear Temperature | 175-190°C |
| Middle Temperature | 180-195°C |
| Front Temperature | 185-200°C |
| Nozzle Temperature | 185-210°C |
| Mold Temperature | 25-55°C |
| Injection Rate | Fast |
| Back Pressure | 0.35-0.7MPa |
| Screw Speed | 100-200rpm |
| Clamp Tonnage | 40-70MPa |
| Screw L/D Ratio | 16:1-24:1 |
| Screw Compression Ratio | 2:1-4:1 |
| Injection Notes: Topolymer®TPV is incompatible with PVC, Purge thoroughly before and after use of this product with a low flow (0.5 - 2.5 MFR)polyethylene (PE) or polypropylene (PP). | |
| Extrusion | Typical Value |
| Drying Temperature | 80°C |
| Drying Time | 3.0hr |
| Melt Temperature | 190-220°C |
| Mold Temperature | 190-220°C |
| Extrusion Notes: Topolymer®TPV is incompatible with PVC, Purge thoroughly before and after use of this product with a low flow (0.5 - 2.5 MFR)polyethylene (PE) or polypropylene (PP). | |

Packaging and Storage:

Topolymer® 9210-851EJ012000 is 25kg per bag, which is packaged with lined PP paper bag.
 Topolymer® 9210-851EJ012000 can be stored in ventilative, ambient PVC-free environment for 12 months.