

Technical Data Sheet

EVAL™ SP521B

27 mol% Ethylene-Vinyl Alcohol Copolymer

| Typical Properties | Unit | Test Method | Metric/(English) |
|--------------------|-----------------------------------|-------------------------|------------------|
| MFR | g/10min | ISO1133 (210°C, 2,160g) | 4.1 |
| Density | 10 ³ kg/m ³ | ISO1183-3 | 1.19 |

| Thermal Properties | Unit | Test Method | Metric/(English) |
|-----------------------------|---------|-------------|------------------|
| Melting Temperature | °C (°F) | ISO 11357 | 190 (374) |
| Crystallization Temperature | °C (°F) | ISO 11357 | 164 (327) |
| Glass Transition Point | °C (°F) | ISO 11357 | 63 (145) |
| Vicat Softening Point | °C (°F) | ISO 306 | 168 (334) |

| Mechanical Properties | Unit | Test Method (Dry injection piece, 23°C) | Metric/(English) |
|-------------------------|---|--|------------------|
| Tensile stress at break | MPa (psi) | ISO 527 | 34 (4,900) |
| Elongation at break | % | ISO 527 | 14 |
| Young's Modulus | GPa (psi) | ISO 527 | 4.8 (700,000) |
| Flexural Modulus | GPa (psi) | ISO 178 | 4.5 (650,000) |
| Charpy Impact Strength | kJ/m ² (ft.lbf/in ²) | ISO 179-1 | 6 (2.9) |
| Rockwell Hardness | HRM | ISO 2039-2 | 93 |

| Barrier Properties (cast film) | Unit | Test Method (Cast film, 20°C, 65%RH) | Metric/(English) |
|--------------------------------|---|---|------------------|
| Oxygen Transmission Rate | cm ³ .20µm/m ² .day.atm (cm ³ .mil/100in ² .day.atm) | ISO 21309-2 Annex C | 0.2 (0.01) |

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Data updated on: 2016-12-15
Layout updated on: 2020-07-21

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