

## Technical Data Sheet

### EVAL™ F171B

32 mol% Ethylene-Vinyl Alcohol Copolymer

Typical Properties	Unit	Test Method	Metric/(English)
MFR	g/10min	ISO1133 (190°C, 2,160g)	1.6
Density	10 <sup>3</sup> kg/m <sup>3</sup>	ISO1183-3	1.19

Thermal Properties	Unit	Test Method	Metric/(English)
Melting Temperature	°C (°F)	ISO 11357	183 (361)
Crystallization Temperature	°C (°F)	ISO 11357	158 (316)
Glass Transition Point	°C (°F)	ISO 11357	60 (140)
Vicat Softening Point	°C (°F)	ISO 306	172 (342)

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	4.5 (650,000)
Flexural Modulus	GPa (psi)	ISO 178	4.3 (620,000)
Charpy Impact Strength	kJ/m <sup>2</sup> (ft.lbf/in <sup>2</sup> )	ISO 179-1	7 (3.3)
Rockwell Hardness	HRM	ISO 2039-2	92

Barrier Properties (cast film)	Unit	Test Method (Cast film, 20°C, 65%RH)	Metric/(English)
Oxygen Transmission Rate	cm <sup>3</sup> .20µm/m <sup>2</sup> .day.atm (cm <sup>3</sup> .mil/100in <sup>2</sup> .day.atm)	ISO 21309-2 Annex C	0.3 (0.015)

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

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Typical properties: These are not to be construed as specifications.