

## Technical Data Sheet

### EVAL™ E105B

44 mol% Ethylene-Vinyl Alcohol Copolymer

Typical Properties	Unit	Test Method	Metric/(English)
MFR	g/10min	ISO1133 (190°C, 2,160g)	5.5
Density	10 <sup>3</sup> kg/m <sup>3</sup>	ISO1183-3	1.14

Thermal Properties	Unit	Test Method	Metric/(English)
Melting Temperature	°C (°F)	ISO 11357	165 (329)
Crystallization Temperature	°C (°F)	ISO 11357	145 (293)
Glass Transition Point	°C (°F)	ISO 11357	53 (127)
Vicat Softening Point	°C (°F)	ISO 306	152 (306)

Mechanical Properties	Unit	Test Method (Dry injection piece, 23°C)	Metric/(English)
Tensile stress at break	MPa (psi)	ISO 527	29 (4,200)
Elongation at break	%	ISO 527	18
Young's Modulus	GPa (psi)	ISO 527	3.5 (510,000)
Flexural Modulus	GPa (psi)	ISO 178	3.2 (460,000)
Charpy Impact Strength	kJ/m <sup>2</sup> (ft.lbf/in <sup>2</sup> )	ISO 179-1	10 (4.8)
Rockwell Hardness	HRM	ISO 2039-2	80

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	1.9 (0.097)

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