

Technical Data Sheet

EVAL™ F101A

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 ³ kg/m ³	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	15
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 ² (ft.lbf/in ²)	ISO 179-1	8 (3.8)
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 ³ .20µm/m ² .day.atm (cm ³ .mil/100in ² .day.atm)	ISO 21309-2 Annex C	0.3 (0.015)

Kuraray America, Inc.
2625 Bay Area Boulevard, Suite 600
Houston, TX 77058

Tel +1 800 423 9762
Fax +1 281 283 1722

www.evalevoh.com
www.kuraray.us.com

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