

Datasheet - Typical Properties of EVAL™ EVOH (ethylene vinyl-alcohol copolymer) resin
EVAL™ F171B

	Test method		Unit	Value
Ethylene Content	Kuraray Method		mol %	32
Oxygen Transmission Rate	ISO 14663-2 annexC	20°C 0%RH	cm ³ .20µm/m ² .day.atm	0,3
	ISO 14663-2 annexC	20°C 35%RH	cm ³ .20µm/m ² .day.atm	0,3
	ISO 14663-2 annexC	20°C 50%RH	cm ³ .20µm/m ² .day.atm	
	ISO 14663-2 annexC	20°C 65%RH	cm ³ .20µm/m ² .day.atm	0,4
	ISO 14663-2 annexC	20°C 85%RH	cm ³ .20µm/m ² .day.atm	1,5
	ISO 14663-2 annexC	20°C 90%RH	cm ³ .20µm/m ² .day.atm	3
	ISO 14663-2 annexC	20°C 100%RH	cm ³ .20µm/m ² .day.atm	
Water Vapour Transmission Rate	ASTM E96-E		g.30µm/m ² .day.	45
Density	ISO 1183		g/cm ³	1,19
Yield Stress	ISO 527		MPa	
Stress at Break	ISO 527		MPa	34
Yield Strain	ISO 527		%	
Strain at Break	ISO 527		%	15
Young's Modulus	ISO 527		MPa	2700
Flexural Modulus	ISO 178		MPa	4800
Izod Impact Strength	ISO 180		kJ/m ²	
Charpy Impact Strength	ISO 179-1		kJ/m ²	2
Charpy at -40°C	ISO 179-1		kJ/m ²	2
Rockwell Hardness	ISO 2039-2		M	90
Melting Temperature	ISO 11357		°C	183
Crystallisation Temperature	ISO 11357		°C	158
Glass Transition Point	ISO 11357		°C	57
Vicat Softening Point	ISO 306		°C	170
Melt Mass-Flow Rate	ISO1133	190°C	g/10min	1,6
	ISO1133	210°C	g/10min	3,7
	ISO1133	230°C	g/10min	6,3
	ISO1133	250°C	g/10min	9,3

Contact: www.evalevoh.com
 EVAL Europe nv
 Haven 1053 - Nieuwe Weg 1, bus 10
 2070 Zwijndrecht (Antwerp), Belgium
 Tel +32 3 250 9733
 Fax +32 3 250 9704

Data updated on: 24/apr/14

Layout updated on: 13-apr-12

Note - The information and data contained in this document are believed to be correct and are given in good faith. However, no liability, warranty or guarantee of final product performance is created by this document. No freedom from any patent is granted or to be inferred. This document does not constitute a sales specification and the EVAL Europe nv Sales Contract General Terms and Conditions continue to apply.