

# Futura hot melt properties

Click to edit Master subtitle style

Creating advantage



2-02-11

# GENERAL USE

## hot melt Properties

	IHM102	IHM 8002	IHM 26	Competitor120	Competitor 200
Viscosity @ 160°C [cP]	1800	1150	590	1272	1365
RxB [°C]	107	110	110	107	106
PIRA Hinge test [°C]	50 – 55	50	45	45 - 50	45
Setting speed @23°C [s] <i>From 160°C</i>	1 – 2	1 – 2	2	2	2 – 3
Open time [s] <i>From 160°C</i>	12 – 14	12	12	14 - 16	16
Flexibility @ 5°C	Flexible	Flexible	Flexible	Flexible	Flexible
Shore hardness D @ 23°C	35	43	42	36	34

# Hotmelt ADHESION

	IHM 102	IHM 8002	IHM 26	Competir 120	Competitor 200
Standard card @ RT	+/+	+/+	+/+	+/+	+/+
Standard card @ 5°C	+/+	+/+	+/+	+/+	+/+
Standard card @ -30°C	+/+	+/-	+/-	+/-	+/-
Corrugated board @ RT	+/+	+/+	+/+	+/+	+/+
Corrugated board @ 5°C	+/+	+/-	+/-	+/-	+/-
Corrugated board @ -30°C	+/-	-/-	-/-	-/-	-/-

Creating advantage



# Hotmelts Which one to choose...?

- For most application IHM 8002 would be recommended against Competitor200
- If similar performance is required but low application temperature might be a benefit than IHM 8046 would be an option
- IHM 8102 has the broadest spectrum of temperature performance.  
It can be used on difficult substrate or where high heat resistance and good performance at low temperature is required at the same time.  
It has the best peppermint oil resistance from *Intercol* packaging range of adhesives.

# Hot melt HIGH HEAT RESISTANCE & FAST SETTING

## SPEED Properties

	IHM 8024	IHM 8028	Competitor300
Viscosity @ 160°C [cPs]	1120	1682	2145
RxB [°C]	105	110	113
PIRA Hinge test [°C]	55	60 – 65	60
Setting speed @23°C [s]	1	0.5 – 1	0.5 – 1
Open time [s]	14	12	12 - 14
Flexibility @ 5°C	Brittle	Brittle	Brittle
Shore hardness D @ 23°C	49	54	50

Creating advantage



# ADHESION of hotmelts

	IHM 80022	IHM 80024	Competitor300
Standard card @ RT	+/+	+/-	+/+
Standard card @ 5°C	+/-	-/-	+/-
Standard card @ -30°C	-/-	-/-	-/-
Corrugated board @ RT	+/-	-/-	+/-
Corrugated board @ 5°C	-/-	-/-	-/-

# Which hot-melt and where to choose...?

- **IHM 80024** where the highest heat resistance and fastest setting speed is required and substrate is reasonably easy
- **IHM 80022** where heat resistance can be compromised for slightly better adhesion

# LOW VISCOSITY Hot melts

## Properties

	IHM 8010	IHM 8014	IHM 8016	IHM 8046	Competitor240
Viscosity @ 140°C [cP]	1000	1195	852	1025	1330
Viscosity @ 160°C [cP]	630	695	490	590	760
RxB [°C]	110	85	84	110	110
PIRA Hinge test [°C]	55	35 - 40	35	45	50
Setting speed @23°C [s] from 160°C	0.5 - 1	1 - 2	3	2	1
Open time [s]	10 -12	14	16	10	10
Flexibility @ 5°C	Brittle	Flexible	Flexible	Flexible	Brittle
Shore hardness D @ 23°C	49	41	33	41	45

Creating advantage





# Hot melt ADHESION

	IHM 8010	IHM 8014	IHM 8016	IHM 8046	Competitor240
Standard card @ RT	+/-	+/+	+/+	+/+	+/-
Standard card @ 5°C	-/-	-/-	+/+	+/+	-/-
Standard card @ -30°C	-/-	-/-	+/+	+/-	-/-
Corrugated board @ RT	-/-	-/-	+/+	+/+	-/-
Corrugated board @ 5°C	-/-	-/-	+/+	+/-	-/-

# Which one is closest to Competitor240...?

- **IHM 8010** is the most similar to Competitor240 in terms of properties and level of adhesion
- **IHM 8014** is an adhesive with faster melt rate is required than IHM 8010 and similar level of adhesion.
- **IHM 8046** is an further step into direction of better adhesion, however compromised by lower heat resistance and slower setting speed.
- **IHM 8016** is suitable for more difficult substrates or when low temperature resistance is required (deep freeze).

# HIGH ADHESION hotmelts

## Properties

	IHM8102	IHM8006	IHM8012	IHM 9004	Competitor600	Competitor 650
Viscosity @ 160°C [cPs]	1800	1220	1300	1540	1620	2385
RxB [°C]	107	89	100	105	102	89
PIRA Hinge test [°C]	50 – 55	30	40	25	40	40
Setting speed @23°C [s] from 160°C	1 – 2	3	5	7	12	8
Open time [s]	12 – 14	16	20	12	14	26
Flexibility @ 5°C	Flexible	Flexible	Flexible	Flexible	Flexible	Flexible
Shore hardness D @ 23°C	35	35	37	26	24	28

Creating advantage



# HIGH ADHESION Laminated substrate

## Properties

	IHM 8104	Competitor700
Viscosity @ 160°C [cP]	6900	1750
Viscosity @ 180°C [cP]	4035	1075
RxB [°C]	104	103
PIRA Hinge test [°C]	50	45
Setting speed @23°C [s]	6 (180°C)	3 (160°C)
Open time [s]	18 (180°C)	18 (160°C)
Flexibility @ 5°C	Flexible	Flexible
Shore hardness D @ 23°C	31	31

2-02-11

Creating advantage



# POLYOLEFIN BASED hot melt information

## Properties

	IHM 8102	IHM 8104
Viscosity @ 160°C [cP]	1800	6900
Viscosity @ 180°C [cP]	1030	4035
RxB [°C]	107	104
PIRA Hinge test [°C]	50 - 55	50
Setting speed @23°C [s]	1 – 2 (160°C)	6 (180°C)
Open time [s]	12 – 14 (160°C)	18 (180°C)
Flexibility @ 5°C	Flexible	Flexible
Shore hardness D @ 23°C	35	31

2-02-11

Creating advantage



# POLYOLEFIN hot melt BASED adhesives

Click to edit Master subtitle style

Creating advantage



# NEW hot melt PRODUCTS

Click to edit Master subtitle style