



WINTEC™

Features and Applications



Japan Polypropylene Corporation

Confidential & Proprietary Information of JPP

**Low
Melting Point**

Clean

Transparent

Typical Applications for WINTEC™

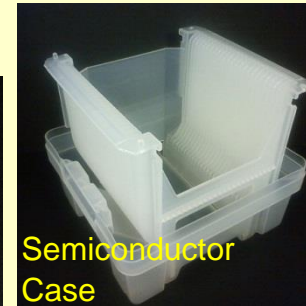
Protective Films

- ✓ Low level of gels



Clean Products

- ✓ Low level of volatile substance
- ✓ Low level of extraction



Highly Transparent Injection Products

- ✓ Excellent transparency



Highly Transparent Bottles

- ✓ Excellent transparency
- ✓ Low level of extraction



WINTEC™ Grade List (Injection-Fiber)



Japan Polypropylene

		WFX4M	WFW4M	WMX03	WMG03	WMG03UX	Test method
MFR	g/10min	7	7	25	30	30	ISO 1133
Density	g/cm ³	0.9	0.9	0.9	0.9	0.9	ISO 1183
Flexural Modulus	MPa	750	1000	750	1250	1450	ISO 178
Flexural Strength		25	30	25	38	41	
Tensile Modulus	MPa	800	1050	750	1280	1450	ISO 527-1
Tensile Stress@Yield	MPa	22	26	22	30	33	
Nominal Tensile Strain	%	>400	>400	>400	>400	200	
Charpy Impact Strength	23 C	kJ/m ²	8	6	8	2.5	ISO 179
	0 C		2	1	2	1	
Rockwell Hardness	---	75	90	70	95	95	ISO 2039-2
Heat Deflection Temperature @ 0.45MPa Load	deg C	70	80	70	90	90	ISO 75
Vicat softening Temperature	deg C	110	125	110	130	130	ISO 306
Gloss	%	90	90	90	90	110	ASTMD523
Haze (1mmt)	%	15	25	10	50	3	ISO 14782
Features		Clean Very Low Tm Soft	Clean Low Tm	Hinge-property Transparency Soft	Clean	Transparency	

Note: This is a typical data, not to be construed as specification.

WINTEC™ Grade List (Extrusion)



Japan Polypropylene

		WFX6	WFX4M	WXK1233	WFX4TA	WFW4M	WFW4	Test method
MFR	g/10min	2	7	7	7	7	7	ISO 1133
Density	g/cm ³	0.9	0.9	0.9	0.9	0.9	0.9	ISO 1183
Flexural Modulus	MPa	700	750	750	750	1000	1000	ISO 178
Flexural Strength		25	25	25	25	30	30	
Tensile Modulus	MPa	750	800	800	800	1050	1050	ISO 527-1
Tensile Stress@Yield	MPa	22	22	22	22	26	26	
Nominal Tensile Strain	%	>400	>400	>400	>400	>400	>400	
Charpy Impact Strength	23 C	kJ/m ²	11	8	8	8	6	ISO 179
	0 C		3	2	2	2	1	
Rockwell Hardness	---	70	75	75	75	90	90	ISO 2039-2
Heat Deflection Temperature @ 0.45MPa Load	deg C	70	70	70	70	80	80	ISO 75
Vicat softening Temperature	deg C	110	110	110	110	125	125	ISO 306
Gloss	%	90	90	90	90	90	90	ASTMD523
Haze (1mmt)	%	25	15	15	15	25	25	ISO 14782
Antiblocking Agent				○	○			
Slip Agent					○			

Note: This is a typical data, not to be construed as specification.