

MonoSol® M8630K

Polyvinyl Alcohol

MonoSol, LLC

Message:

MonoSol M8630K is a PVOH based thermoplastic film, soluble in cold water and manufactured using MonoSol's proprietary solution cast technology. MonoSol M8630K film has been specially formulated to be completely resistant to alkaline hydrolysis up to 14 pH. Coupling its rapid cold water solubility and compatibility to alkaline compounds, M8630K film is an excellent candidate for Detergent and Disinfectant unit dose packaging. It has good cold crack resistance and can be easily converted on all conventional packaging machines. Standard thicknesses are 25 micron (1.0 mil), 38 micron (1.5 mil), 51 micron (2.0 mil) and 76 micron (3.0 mil).

| General Information | | | |
|--|---------------------------|--------------------|-----------------------|
| Features | Aliphatic | | |
| | Biodegradable | | |
| | Good Crack Resistance | | |
| | Low Temperature Resistant | | |
| | Water Soluble | | |
| Uses | Film | | |
| | Packaging | | |
| Forms | Film | | |
| Physical | Nominal Value | Unit | |
| Moisture Content (23°C) ¹ | 8.3 | wt% | |
| Solubility ² | | | |
| Disintegration : 10°C, 76.2 µm | 33.0 | sec | |
| Dissolution : 10°C, 76.2 µm | 56.0 | sec | |
| Yield (76.2 µm) | 9.96 | m ² /kg | ASTM D4321 |
| Films | Nominal Value | Unit | Test Method |
| Film Thickness - Tested | 76 | µm | |
| Film Thickness - Recommended / Available | 38 µm, 51 µm, and 76 µm | | |
| Secant Modulus - 100%, MD | 10.3 | MPa | ASTM D882, ISO 527-3 |
| Tensile Strength - MD | | | |
| Break | 37.2 | MPa | ASTM D882 |
| -- | 37.2 | MPa | ISO 527-3 |
| Tensile Elongation - MD (Break) | 590 | % | ASTM D882, ISO 527-3 |
| Dart Drop Impact | 2200 | g | ASTM D1709, DIN 53433 |
| Elmendorf Tear Strength - MD | | | |
| -- | 940 | g | ASTM D1922 |
| -- | 0.096 | N | ISO 6383-2 |
| NOTE | | | |
| 1. | 50%RH | | |

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

