

# WINTEC™ WFW4F

Polypropylene Random Copolymer

Japan Polychem Corporation

## Message:

Low fish-eye levels caused by polymers because Wintec™ has:

Less high molecular weight fractions

Less low crystalline fractures (smooth flow during processing)

Applications:

Protective films for optical instruments, electrical equipment, ect.

Any other applications that requires low fish-eye levels

| General Information                                |                                    |                   |             |
|----------------------------------------------------|------------------------------------|-------------------|-------------|
| Uses                                               | Electrical/Electronic Applications |                   |             |
|                                                    | Optical Applications               |                   |             |
| Processing Method                                  | Extrusion                          |                   |             |
| Physical                                           | Nominal Value                      | Unit              | Test Method |
| Density                                            | 0.900                              | g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR)                          | 7.0                                | g/10 min          | ISO 1133    |
| Hardness                                           | Nominal Value                      | Unit              | Test Method |
| Rockwell Hardness                                  | 90                                 |                   | ISO 2039-2  |
| Mechanical                                         | Nominal Value                      | Unit              | Test Method |
| Tensile Modulus                                    | 1050                               | MPa               | ISO 527-2   |
| Tensile Stress (Yield)                             | 26.0                               | MPa               | ISO 527-2   |
| Nominal Tensile Strain at Break                    | > 400                              | %                 | ISO 527-2   |
| Flexural Modulus                                   | 1000                               | MPa               | ISO 178     |
| Flexural Stress                                    | 30.0                               | MPa               | ISO 178     |
| Impact                                             | Nominal Value                      | Unit              | Test Method |
| Charpy Unnotched Impact Strength (23°C)            | 6.0                                | kJ/m <sup>2</sup> | ISO 179     |
| Thermal                                            | Nominal Value                      | Unit              | Test Method |
| Heat Deflection Temperature (0.45 MPa, Unannealed) | 80.0                               | °C                | ISO 75-2/B  |
| Peak Crystallization Temperature                   | 135                                | °C                | ISO 11357-3 |
| Optical                                            | Nominal Value                      | Unit              | Test Method |
| Gardner Gloss                                      | 90                                 |                   | ASTM D523   |
| Haze (1000 μm)                                     | 25                                 | %                 | ISO 14782   |

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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

