

# Formosa TAIRIREX<sup>®</sup> GP535A

Features: General purpose grade, Low monomer residue, High heat resistance

Application: Lampshade, Media packaging, Composites, General purpose

| Physical property                                                       |                                             | Standard   | Value | Unit               |
|-------------------------------------------------------------------------|---------------------------------------------|------------|-------|--------------------|
| Density                                                                 | 23°C                                        | ASTM D792  | 1.04  | g/cm <sup>3</sup>  |
| Melt Index                                                              | 200°C 5kg                                   | ASTM D1238 | 4.3   | g/10min            |
| Monomer Content                                                         |                                             |            | 700   | ppm                |
| Mechanical behavior                                                     |                                             | Standard   | Value | Unit               |
| Tensile Modulus                                                         | 23°C                                        | ASTM D638  | 35000 | kg/cm <sup>2</sup> |
| Tensile Modulus                                                         | 23°C                                        | ASTM D638  | 3430  | MPa                |
| Tensile Strength                                                        | 23°C                                        | ASTM D638  | 480   | kg/cm <sup>2</sup> |
| Tensile Strength                                                        | 23°C                                        | ASTM D638  | 47    | MPa                |
| Elongation                                                              | 23°C                                        | ASTM D638  | 2     | %                  |
| Flexural Strength                                                       | 23°C                                        | ASTM D790  | 930   | kg/cm <sup>2</sup> |
| Flexural Strength                                                       | 23°C                                        | ASTM D790  | 92    | MPa                |
| Flexural Modulus                                                        | 23°C                                        | ASTM D790  | 32000 | kg/cm <sup>2</sup> |
| Flexural Modulus                                                        | 23°C                                        | ASTM D790  | 3136  | MPa                |
| Izod Notch Impact                                                       | 23°C 6.4mm                                  | ASTM D256  | 1.8   | kg-cm/cm           |
| Izod Notch Impact                                                       | 23°C 6.4mm                                  | ASTM D256  | 18    | J/m                |
| Thermal                                                                 |                                             | Standard   | Value | Unit               |
| HDT                                                                     | Annealed 3.2mm Annealed at 80°C for 2 hours | ASTM D648  | 89    | °C                 |
| Vicat Softening Temperature Annealed 3.2mm Annealed at 80°C for 2 hours |                                             | ASTM D1525 | 100   | °C                 |