

## Technical Data Sheet

### *Pro-fax* 6523

Polypropylene, Homopolymer

#### Product Description

*Pro-fax* 6523 general purpose polypropylene homopolymer resin is available in pellet form.

ASTM and ISO-based versions of the technical datasheet are available for *Pro-fax* 6523.

|                          |                                                                        |
|--------------------------|------------------------------------------------------------------------|
| <b>Application</b>       | Automotive Parts; Raffia/Tapes/Strapping; Thermoformed Food Containers |
| <b>Market</b>            | Automotive; Consumer Products; Rigid Packaging                         |
| <b>Processing Method</b> | Cast Film; Injection Molding; Thermoforming                            |
| <b>Attribute</b>         | Good Heat Aging Resistance                                             |

| Typical Properties                        | Nominal Value | Units             | Test Method   |
|-------------------------------------------|---------------|-------------------|---------------|
| <b>Physical</b>                           |               |                   |               |
| Melt Flow Rate, (230 °C/2.16 kg)          | 4.0           | g/10 min          | ASTM D1238    |
| Density, (23 °C, Method A)                | 0.90          | g/cm <sup>3</sup> | ISO 1183-1    |
| <b>Mechanical</b>                         |               |                   |               |
| Flexural Modulus                          | 1270          | MPa               | ISO 178       |
| Tensile Stress at Yield, (23 °C)          | 30            | MPa               | ISO 527-1, -2 |
| Tensile Strain at Yield, (23 °C)          | 12            | %                 | ISO 527-1, -2 |
| <b>Impact</b>                             |               |                   |               |
| Charpy Impact Strength - Notched, (23 °C) | 6.7           | kJ/m <sup>2</sup> | ISO 179       |
| Notched Izod Impact Strength, (23 °C)     | 6.2           | kJ/m <sup>2</sup> | ISO 180       |
| <b>Thermal</b>                            |               |                   |               |
| Deflection Temperature Under Load         |               |                   |               |
| (0.45 MPa, Unannealed)                    | 79            | °C                | ISO 75B-1, -2 |
| (1.80 MPa, Unannealed)                    | 50            | °C                | ISO 75A-1, -2 |