

## Technical Data Sheet



### ALTECH PP H ECO 4920/570 MR 20

|                        |                                                                           |
|------------------------|---------------------------------------------------------------------------|
| Base Polymer           | Polypropylene Homopolymer                                                 |
| Filler/Additive System | 20 % talcum,antioxidant                                                   |
| Special Features       | longterm heat stabilized,processing stabilised,contains recycled material |
| Application Area       | injection moulded parts                                                   |
| Typical Applications   | air duct,housing and automotive trim unpainted,various                    |
| Approvals              | Ford Approved Source List (ASL)                                           |

|                       |                                                                                                              |
|-----------------------|--------------------------------------------------------------------------------------------------------------|
| Pre-Drying Conditions | in a dry air (dessiccant) dryer 80-120 °C<br>for 2-3 h<br>in an air circulating dryer 80-120 °C<br>for 2-4 h |
|-----------------------|--------------------------------------------------------------------------------------------------------------|

|                               |                                                           |
|-------------------------------|-----------------------------------------------------------|
| Processing Injection Moulding | melt temperature 200-240 °C<br>mould temperature 20-70 °C |
|-------------------------------|-----------------------------------------------------------|

|         |                           |
|---------|---------------------------|
| Storage | dry, protected from light |
|---------|---------------------------|

| Properties                             | Value     | Dimension                 | Test Norm        |
|----------------------------------------|-----------|---------------------------|------------------|
| <b>Mechanical Properties</b>           |           |                           |                  |
| Flexural Modulus                       | 1950      | MPa                       | ISO 178          |
| Flexural Stress (3.5% Strain)          | 35        | MPa                       | ISO 178          |
| Tensile Modulus                        | 1800      | MPa                       | ISO 527          |
| Tensile Stress at Yield                | 27        | MPa                       | ISO 527          |
| Tensile Elongation at Yield            | 5.4       | %                         | ISO 527          |
| Tensile Elongation at Break            | 25        | %                         | ISO 527          |
| Impact Strength (Charpy, 23°C)         | 35        | kJ/m <sup>2</sup>         | ISO 179/1eU      |
| Notched Impact Strength (Charpy, 23°C) | 3.5       | kJ/m <sup>2</sup>         | ISO 179/1eA      |
| <b>Thermal Properties</b>              |           |                           |                  |
| Vicat B50                              | 78        | °C                        | ISO 306          |
| <b>Rheological Properties</b>          |           |                           |                  |
| Melt Index (MVR)                       | 10        | cm <sup>3</sup> /10min    | ISO 1133         |
| MVR temperature                        | 230       | °C                        | -                |
| MVR load                               | 2.16      | kg                        | -                |
| Shrinkage (lengthwise, 24h)            | 1.3 - 1.7 | %                         | ISO 294-4        |
| Shrinkage (lateral, 24h)               | 0.8 - 1.2 | %                         | ISO 294-4        |
| <b>Physical Properties</b>             |           |                           |                  |
| Density                                | 1060      | kg/m <sup>3</sup>         | ISO 1183         |
| <b>Ecological Properties</b>           |           |                           |                  |
| Global Warming Potential (GWP)         | 0.75      | kg CO <sub>2</sub> eq./kg | ISO 14040, 14044 |