

# Physical properties for pigment dispersant

|                        |                                   |                   | HI-WAX™ |       | Competitive WAX |      |      |
|------------------------|-----------------------------------|-------------------|---------|-------|-----------------|------|------|
|                        |                                   |                   | 420P    | GB-01 | A               | B    | C    |
| Flowability            | Molecular weight, Mv (Viscometry) | -                 | 3900    | 3000  | 3100            | 3600 | 3500 |
|                        | Melt viscosity @140°C             | mPa · s           | 670     | 250   | 410             | 550  | 540  |
| Dispersibility         | Density                           | Kg/m <sup>3</sup> | 928     | 928   | 913             | 924  | 923  |
|                        | Crystallinity                     | %                 | 67      | 70    | 51              | 68   | 59   |
|                        | Acid value                        | KOH mg/g          | <0.1    | 1     | <0.1            | <0.1 | <0.1 |
| Other basic properties | Hardness                          | dmm               | 1       | 7     | 4               | 3    | 1    |
|                        | Melting point                     | °C                | 111     | 107   | 99              | 112  | 105  |
|                        | Softening point                   | °C                | 118     | 114   | 106             | 118  | 112  |