

# QAMAR HDPE F1

## High Density Polyethylene

SPDC Ltd.

### Technical Data

| Item                             |    | Grade             |                   | F1                 |
|----------------------------------|----|-------------------|-------------------|--------------------|
|                                  |    | Test Method       | Unit              |                    |
| MI*1                             |    | ISO 1872-2        | g/10min           | 0.05               |
| HLMI*2                           |    | ISO 1872-2        | g/10min           | 9                  |
| Density                          |    | ISO 1872-2        | g/cm <sup>3</sup> | 0.952              |
| Film Tickness                    |    | -                 | μm                | 20                 |
| Haze                             |    | ISO 14782         | %                 | 50                 |
| Dart Drop Impact                 |    | ISO 7765          | g                 | 150                |
| Tensile Stress at Break          | MD | ISO 527-3         | MPa               | 60                 |
|                                  | TD |                   |                   | 55                 |
| Nominal Tenslle Strain at Break  | MD | ISO 527-3         | %                 | 270                |
|                                  | TD |                   |                   | 610                |
| Modulus of Elasticity in Tension | MD | ISO 527-3         | MPa               | 1,350              |
|                                  | TD |                   |                   | 1,550              |
| Elmendorf Tear Strength          | MD | ISO 6383-2        | N/mm              | 5                  |
|                                  | TD |                   |                   | 35                 |
| Processing Conditions            |    | Resin Temperature |                   | 200°C              |
|                                  |    | Blow up Ratio     |                   | 3                  |
|                                  |    | Extruder          |                   | 50mmØ L/D=28       |
|                                  |    | Air Ring          |                   | SINGLE SLIT        |
|                                  |    | Die               |                   | 100mmØ LIP GAP=1mm |
|                                  |    | Output            |                   | 60kg/h             |
|                                  |    | Take off Speed    |                   | 60m/min            |

\*1 Melt Index(2.16kg)

\*2 High Load Melting Index (21.6kg)