



# Technical Data Sheet

## Film Grade (Super Bright Resin)

### Product Description

Our specially formulated food grade Polyethylene Terephthalate (PET) Resin for film applications is exquisitely crafted to offer exceptional transparency, strength, and durability. Boasting unparalleled resistance to chemicals, heat, and dimensional stability, it offers an impeccable option for diverse packaging, lamination, and various film applications where endurance and performance are paramount.



### Applications

Film Grade resin for BOPET Films. Engineered for easy processability, IR-F 63 (IV 0.63) is considered suitable for BOPET films used in printing and packaging of various food grade and industrial applications.

| Properties               | Unit        | Test Method  | Test Equipment                        | Ismail Resin Specifications |
|--------------------------|-------------|--------------|---------------------------------------|-----------------------------|
| Intrinsic Viscosity (IV) | dl/g        | ASTM D-4603  | Ubbelohde Viscometer IB               | 0.635 ± 0.02                |
| Carboxylic End Group     | m.mol/kg    | PV - 07090.6 | Manual Titration with Digital Burette | 32 ± 3                      |
| DEG Content              | %           | PV-09008.7   | Gas Chromatography                    | 1.5 ± 0.2                   |
| Acetaldehyde (AA)        | ppm         | ASTM F-2013  | Gas Chromatography                    | ≤ 80                        |
| Moisture Content         | %           | ASTM D-6980  | Ohaus Moisture Analyser               | ≤ 0.4                       |
| Melting Point            | [°C]        | ASTM D-3418  | Perkin Elmer DSC                      | 255 ± 2                     |
| Color Cie Lab L          | White/Black | PV-07110.5   | Color View                            | 60 ± 5                      |
| Color Cie Lab a          | Green/Red   | PV-07110.5   | Color View                            | -0 to -1.5                  |
| Color Cie Lab b          | Yellow/Blue | PV-07110.5   | Color View                            | 0 to +2                     |
| No. of Chips/gram        | No.         | Manual       | -                                     | 35 ± 5                      |

### Disclaimer

The information and the data contained here is believed to be correct and there are FDA/EEC compliance certifications and other major food grade approvals available that can be provided upon request.