

Technical Data Sheet

Pro-fax SC973Y



Polypropylene, Impact Copolymer

Product Description

Pro-fax SC973Y high melt flow, impact polypropylene copolymer is available in pellet form. This resin is typically used in thin-wall injection molding applications and offers a very good stiffness/impact balance.

| | |
|--------------------------|---|
| Application | Multi Media Packaging; TWIM Food Containers |
| Market | Consumer Products; Rigid Packaging |
| Processing Method | Compounding; Injection Molding |
| Attribute | Contains Antistat; Good Impact Resistance; Good Stiffness; High Flow; Nucleated |

| Typical Properties | Nominal Value | English Units | Nominal Value | SI Units | Test Method |
|---------------------------------------|---------------|-------------------|---------------|-------------------|-------------|
| Physical | | | | | |
| Melt Flow Rate, (230 °C/2.16 kg) | 107 | g/10 min | 107 | g/10 min | ASTM D1238 |
| Density, (23 °C) | 0.90 | g/cm ³ | 0.90 | g/cm ³ | ASTM D792 |
| Mechanical | | | | | |
| Flexural Modulus | | | | | |
| (0.05 in/min, 1% Secant, Procedure A) | 205000 | psi | | | ASTM D790 |
| (1.3 mm/min, 1% Secant, Procedure A) | | | 1410 | MPa | ASTM D790 |
| Tensile Strength at Yield | | | | | |
| (2 in/min) | 3800 | psi | | | ASTM D638 |
| (50 mm/min) | | | 26 | MPa | ASTM D638 |
| Tensile Elongation at Yield | 4 | % | 4 | % | ASTM D638 |
| Impact | | | | | |
| Notched Izod Impact Strength | | | | | |
| (73 °F, Method A) | 0.7 | ft-lb/in | | | ASTM D256 |
| (23 °C, Method A) | | | 37 | J/m | ASTM D256 |
| Thermal | | | | | |
| Deflection Temperature Under Load | | | | | |
| (66 psi, Unannealed) | 243 | °F | | | ASTM D648 |
| (0.45 MPa, Unannealed) | | | 117 | °C | ASTM D648 |