



## P-FI-160 Homopolymer

### Description:

"Polynar P-FI-160" is polypropylene homopolymer for production of fine Denier staple Fibers for Nonwoven Thermobonded Fabrics.

"Polynar P-FI-160" offers better processability with the long – spinning technology resulting in high and uniform fiber quality and less down-time.

"Polynar P-FI-160" are characterized by softness, textile-like appearance and high tear resistance.

"Polynar P-FI-160" is suitable for food contact.

### Processing Method:

production of fine Denier staple Fibers for Nonwoven Thermobonded Fabrics.

### Features:

homopolymer  
softness  
textile-like appearance  
high tear resistance

### Typical Applications:

carpet,diapers,medical disposables,wipes and other applications include filters and fabrics for the automotive ,clothing and furniture industry.

| TYPICAL PROPERTIES                      | VALUE | UNIT              | METHOD     |
|---|-------|-------------------|------------|
| <b>Physical</b>                         |       |                   |            |
| Melt Flow Rate (230 °C, 2.16kg)         | 16.0  | g/10min           | ASTM D1238 |
| Density                                 | 0.90  | g/cm <sup>3</sup> | ASTM D1505 |
| <b>Mechanical</b>                       |       |                   |            |
| Flexural Modulus                        | 1550  | MPa               | ASTM D790  |
| Tensile Strength at Yield               | 33    | MPa               | ASTM D638  |
| Tensile Elongation at Yield             | 12    | %                 | ASTM D638  |
| Izod Impact Strength (notched) at 23 °C | 30    | J/m               | ASTM D256  |
| <b>Thermal</b>                          |       |                   |            |
| Vicat softening point (10N)             | 154   | °C                | ASTM D1525 |
| H.D.T. (0.46 Mpa)                       | 95    | °C                | ASTM D648  |

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