

# ISOTHANE® 1170D

Thermoplastic Polyurethane Elastomer (Polyester)

Great Eastern Resins Industrial Co Ltd (GRECO)

Message:

ISOTHANE 1170D products is polyester poly(adipate)ester based thermoplastic polyurethanes. This exhibit good toughness, solvent resistance, easy processing, and high transparency. This products can be injection molded, and extruded.

Suggested Applications:

Seals, Gaskets, Sheets, Tube, Cable, Shoe Sole, Sporting Equipments and Mechanical Goods.

| General Information                    |                          |                   |             |
|--|--------------------------|-------------------|-------------|
| Features                               | General Purpose          |                   |             |
|  | Good Processability      |                   |             |
|  | Good Toughness           |                   |             |
|  | Solvent Resistant        |                   |             |
| Uses                                   | Cable Jacketing          |                   |             |
|  | Footwear                 |                   |             |
|  | Gaskets                  |                   |             |
|  | General Purpose          |                   |             |
|  | Machine/Mechanical Parts |                   |             |
|  | Seals                    |                   |             |
|  | Sheet                    |                   |             |
|  | Sporting Goods           |                   |             |
| Appearance                             | Clear/Transparent        |                   |             |
|  | Extrusion                |                   |             |
| Processing Method                      | Extrusion                |                   |             |
|  | Injection Molding        |                   |             |
| Physical                               | Nominal Value            | Unit              | Test Method |
| Specific Gravity                       | 1.23                     | g/cm <sup>3</sup> | ASTM D792   |
| Hardness                               | Nominal Value            | Unit              | Test Method |
| Durometer Hardness (Shore D)           | 71                       |                   | ASTM D2240  |
| Mechanical                             | Nominal Value            | Unit              | Test Method |
| Taber Abrasion Resistance (H-22 Wheel) | 60.0                     | mg                | ASTM D1044  |
| Elastomers                             | Nominal Value            | Unit              | Test Method |
| Tensile Stress                         |                          |                   | ASTM D412   |
| 50% Strain                             | 13.0                     | MPa               |             |
| 100% Strain                            | 17.0                     | MPa               |             |
| 300% Strain                            | 25.0                     | MPa               |             |
| Tensile Strength (Yield)               | 40.0                     | MPa               | ASTM D412   |

|                            |     |      |            |
|----------------------------|-----|------|------------|
| Tensile Elongation (Break) | 310 | %    | ASTM D412  |
| Tear Strength <sup>1</sup> | 220 | kN/m | ASTM D624  |
| Compression Set            |     |      | ASTM D395B |
| 23°C, 22 hr                | 25  | %    |            |
| 70°C, 22 hr                | 70  | %    |            |

#### NOTE

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### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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