

# LOTTE CHEMICAL

## LOTTMER<sup>®</sup> HS-050AB

Thermoplastic Elastomer

### General Information

#### Description

HS-050AB is a fully-crosslinked thermoplastic elastomer(TPE) product. TPEs can be easily processed with general thermoplastic processing equipments. It has low compression set, good weatherability and excellent resistance to high temperature, chemicals, and ozone. Flexible PVC, rubbers (CR, NBR, EPDM etc.) can be replaced with TPE.

#### Applications

◆ Grip, Door Gasket, etc.

### Physical Properties<sup>1</sup>

| Physical                     | Test Method | Nominal Value |          |     |      |
|------------------------------|-------------|---------------|----------|-----|------|
| Density                      | ISO 1183    | 0.95          | g/cm³    |     |      |
| Hardness                     | ISO 868     | 51            | Shore A  |     |      |
| Mechanical                   |             |               |          |     |      |
| Tensile Stress (Break)       | ISO 37      | 45            | kgf/cm²  | 4.4 | MPa  |
| Elongation (Break)           | ISO 37      | 400           | %        |     |      |
| 100% Modulus                 | ISO 37      | 18            | kgf/cm²  | 1.8 | MPa  |
| Tear Stress                  | ISO 34      | 20            | kgf/cm   | 20  | kN/m |
| IZOD Impact Strength (-40°C) | ISO 180     | N.B.          | kg·cm/cm |     |      |

### Processing Information

|                                  |                            |
|----------------------------------|----------------------------|
| Recommended Drying Condition     | Drying at 80°C over 2hours |
| Recommended Processing Condition | 160~200°C                  |

### Notes

ISO 9001, 14001, /TS 16949

<sup>1</sup> Physical Properties : these are not to be construed as specifications.

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