

# Hanwha Total PP TB52M

Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

TB52M is used in automobile head-lamps. This grade is articularly suited for lamp-housings due to high resistance to heat originating at around lamps, and prevents hazing lamp glass in the housings by reducing fume. Also improves the finish on car lamps interior surface.

| General Information                                      |                         |          |             |
|--|-------------------------|----------|-------------|
| UL YellowCard  | E140331-222954          |          |             |
| Additive   | Anti-Fog                |          |             |
| Features   | Anti-fogging            |          |             |
|  | Good Impact Resistance  |          |             |
|  | Good Surface Finish     |          |             |
|  | High Heat Resistance    |          |             |
| Uses   | Automotive Applications |          |             |
|  | Housings                |          |             |
| Forms  | Pellets                 |          |             |
| Physical   | Nominal Value           | Unit     | Test Method |
| Density  | 1.05                    | g/cm³    | ASTM D1505  |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)                | 10                      | g/10 min | ASTM D1238  |
| Molding Shrinkage - Flow                                 | 1.0 to 1.4              | %        | ASTM D955   |
| Hardness   | Nominal Value           | Unit     | Test Method |
| Rockwell Hardness (R-Scale)                              | 98                      |          | ASTM D785   |
| Mechanical   | Nominal Value           | Unit     | Test Method |
| Tensile Strength (Yield)                                 | 33.3                    | MPa      | ASTM D638   |
| Tensile Elongation (Break)                               | 15                      | %        | ASTM D638   |
| Flexural Modulus   | 2840                    | MPa      | ASTM D790   |
| Impact   | Nominal Value           | Unit     | Test Method |
| Notched Izod Impact                                      |                         |          | ASTM D256   |
| -30°C  | 26                      | J/m      |             |
| 23°C   | 40                      | J/m      |             |
| Thermal  | Nominal Value           | Unit     | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 139                     | °C       | ASTM D648   |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

## 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

