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|---|----------------------------|--|---|--------|
|  | <b>TYPICAL DATA SHEET*</b> |  | ISSUE DATE  | Feb-14 |
|   |                            |  | VALID UNTIL   | Feb-15 |
|   | GRADE                      |  | <a href="http://WWW.TPCO.IR">WWW.TPCO.IR</a>                                    |        |
|   | <b>GPPS1540</b>            |  | IRAN/TABRIZ/TABRIZ PETROCHEMICAL<br>COMPANY/P.O.BOX:51745-354/TEL:+984114282612 |        |

GPPS1540 is an easy flowing crystal polystyrene designed for extrusion or injection applications.

It improves extruder output and thermoforming cycle time when mixed with a high impact polystyrene such as HIPS7240. It is particularly suitable for glossy-layer coextrusion.

Applications:

packaging articles, petri dishes, office equipments, pen barrels, crisper boxes for refrigerators, cups  
gloss layer coextrusion, anionic styrene butadiene copolymer dilution.

| PROPERTY                              | UNIT    | TEST METHOD                            | TYPICAL VALUE |
|---------------------------------------|---------|--|---------------|
| MELT FLOW INDEX(200°C-5KG)            | g/10min | ISO 1133 H                             | 11            |
| STYRENE RESIDUAL MONOMER              | PPM     | CLG LABPSG004<br>(ATOFINA TEST METHOD) | <500          |
| VICAT SOFTENING POINT ( 50 °C/hr 1kg) | °C      | ISO 306A50                             | 91            |
| ROCKWELL HARDNESS                     | -       | ISO 2039-2                             | L SCALE/ 70   |
| TENSILE STRENGTH AT BREAK             | MPA     | ISO 527-2                              | 42            |
| ELONGATION AT BREAK                   | %       | ISO 527-2                              | 2             |
| FLEXURAL MODULUS                      | MPA     | ISO 178                                | 2900          |
| TENSILE MODULUS                       | MPA     | ISO 527-2                              | 3100          |
| WATER ADSORPTION                      | %       | ISO 62                                 | <0.1          |

\*All above mentioned data are typical values and not to be construed as real specifications. Users should confirm results by their own tests. For more information about guaranteed items, please refer to S.S.S. (Standard Sales Specifications)

Density and shrinkage of this grade are approximately around 1.04 kg/lit & (0.4-0.7)%(ASTM D-955) respectively.

All test are carried out at 23°C , unless otherwise stated.

If in grade reference the fourth digit is "1"(1541) , indicates an external lubricants is included.

If the injection molding products quality is affected by moisture, granules of GPPS could be dried at 70°C for 2-4 hours.