Samsung Total PP GH41
High Crystallinity Polypropylene
SAMSUNG TOTAL PETROCHEMICALS Co., Ltd.

Technical Data

Product Description
SAMSUNG TOTAL GH41 is a GF modified polypropylene compound modified by glass fiber filling to improve mechanical rigidity and heat-resistance. It is produced by modifying a variety of base PPs, including HIPP (High Isotactic Polypropylene), with Samsung’s special processing technology. Its excellent quality makes it ideal for use in air conditioner fans and automobile cooling fans; and like products requiring high rigidity and high impact-resistance.

General
- Material Status: Commercial: Active
- Literature: Processing - Flame Retardant PP (English) Processing - High Rigidity PP (English)
- UL Yellow Card: E140331-222927
- Search for UL Yellow Card: SAMSUNG TOTAL PETROCHEMICALS Co., Ltd.
- Availability: Asia Pacific, North America
- Filler / Reinforcement: Glass Fiber
- Forms: Pellets
- Processing Method: Injection Molding

Physical
- Specific Gravity: 0.970 g/cm³ ASTM D792
- Melt Mass-Flow Rate (MFR) (230°C/2.16 kg): 12 g/10 min ASTM D1238
- Molding Shrinkage - Flow (2.00 mm): 0.40 to 1.1 % ASTM D955

Mechanical
- Tensile Strength: 58.8 MPa ASTM D638
- Tensile Elongation: 5.0 % ASTM D638
- Apparent Bending Modulus: 83.4 MPa ASTM D747
- Flexural Modulus: 2750 MPa ASTM D790

Impact
- Notched Izod Impact (23°C): 78 J/m ASTM D256

Hardness
- Rockwell Hardness (R-Scale): 113 ASTM D785

Thermal
- Deflection Temperature Under Load: 160 °C ASTM D648

Flammability
- Flame Rating: HB UL 94

Injection
- Rear Temperature: 180 to 220 °C
- Middle Temperature: 180 to 220 °C
- Front Temperature: 180 to 220 °C
- Mold Temperature: 50.0 to 80.0 °C
- Injection Pressure: 49.0 to 88.3 MPa
- Back Pressure: 0.490 to 0.981 MPa
- Screw Speed: 30 to 80 rpm
Injection Notes

Injection Speed: max

Notes

1 These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

2 A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

3 Typical properties: these are not to be construed as specifications.

4 50 mm/min

5 5.0 mm/min
Where to Buy

Supplier

SAMSUNG TOTAL PETROCHEMICALS Co., Ltd.
Seosan Si, Chung Nam South Korea
Telephone: +82-41-660-6114
Web: http://www.samsungtotal.com/

Distributor

KMI Group
Telephone: 949-502-8136 x201
Web: http://www.kmigroup.com/
Availability: North America