

# POPELEN HSG-372

Polypropylene Impact Copolymer  
Lotte Chemical Corporation

Message:  
High Stiffness, Low Density

| General Information                                      |                         |          |             |
|----------------------------------------------------------|-------------------------|----------|-------------|
| Features                                                 | Block Copolymer         |          |             |
|                                                          | High Stiffness          |          |             |
|                                                          | Low Density             |          |             |
| Uses                                                     | Automotive Applications |          |             |
| Physical                                                 | Nominal Value           | Unit     | Test Method |
| Specific Gravity                                         | 0.930                   | g/cm³    | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)                | 20                      | g/10 min | ASTM D1238  |
| Hardness                                                 | Nominal Value           | Unit     | Test Method |
| Rockwell Hardness (R-Scale)                              | 95                      |          | ASTM D785   |
| Mechanical                                               | Nominal Value           | Unit     | Test Method |
| Tensile Strength (Yield)                                 | 31.4                    | MPa      | ASTM D638   |
| Tensile Elongation (Break)                               | 50                      | %        | ASTM D638   |
| Flexural Modulus                                         | 2450                    | MPa      | ASTM D790   |
| Flexural Strength                                        | 41.2                    | MPa      | ASTM D790   |
| Impact                                                   | Nominal Value           | Unit     | Test Method |
| Notched Izod Impact                                      |                         |          | ASTM D256   |
| -10°C                                                    | 29                      | J/m      |             |
| 23°C                                                     | 49                      | J/m      |             |
| Thermal                                                  | Nominal Value           | Unit     | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 130                     | °C       | ASTM D648   |

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