

# Hostacom X 678/1 LS71

Polypropylene Copolymer

LyondellBasell Industries

## Message:

20% mineral filled elastomer modified PP copolymer. Medium flow, good stiffness toughness balance, good UV resistance. Used for interior automotive components.

| General Information    |                              |
|------------------------|------------------------------|
| Filler / Reinforcement | Mineral,20% Filler by Weight |
| Additive               | UV Stabilizer                |
| Features               | Copolymer                    |
|                        | Good Stiffness               |
|                        | Good Toughness               |
|                        | Good UV Resistance           |
|                        | Medium Flow                  |
|                        |                              |
| Uses                   | Automotive Applications      |
|                        | Automotive Interior Parts    |

| Physical                             | Nominal Value | Unit                   | Test Method     |
|--------------------------------------|---------------|------------------------|-----------------|
| Density                              | 1.05          | g/cm <sup>3</sup>      | ISO 1183        |
| Melt Mass-Flow Rate (MFR)            |               |                        | ISO 1133        |
| 230°C/2.16 kg                        | 4.5           | g/10 min               |                 |
| 230°C/5.0 kg                         | 22            | g/10 min               |                 |
| Melt Volume-Flow Rate (MVR)          |               |                        | ISO 1133        |
| 230°C/2.16 kg                        | 5.00          | cm <sup>3</sup> /10min |                 |
| 230°C/5.0 kg                         | 25.0          | cm <sup>3</sup> /10min |                 |
| Molding Shrinkage                    | 0.90 to 1.1   | %                      | Internal Method |
| Hardness                             | Nominal Value | Unit                   | Test Method     |
| Ball Indentation Hardness (H 358/30) | 65.0          | MPa                    | ISO 2039-1      |
| Mechanical                           | Nominal Value | Unit                   | Test Method     |
| Tensile Stress (Yield)               | 24.0          | MPa                    | ISO 527-2/50    |
| Tensile Strain                       |               |                        | ISO 527-2/50    |
| Yield                                | 5.0           | %                      |                 |
| Break                                | 50            | %                      |                 |
| Flexural Modulus - Secant            | 2300          | MPa                    | ISO 178         |
| Flexural Stress (3.5% Strain)        | 35.0          | MPa                    | ISO 178         |
| Impact                               | Nominal Value | Unit                   | Test Method     |
| Charpy Notched Impact Strength       |               |                        | ISO 179/1eA     |
| -30°C                                | 3.0           | kJ/m <sup>2</sup>      |                 |

| 23°C                                              | 11            | kJ/m <sup>2</sup> |             |
|---------------------------------------------------|---------------|-------------------|-------------|
| Charpy Unnotched Impact Strength (23°C)           | No Break      |                   | ISO 179/1eU |
| Notched Izod Impact Strength (23°C)               | 10            | kJ/m <sup>2</sup> | DIN 53453   |
| Unnotched Izod Impact Strength                    |               |                   | DIN 53453   |
| -40°C                                             | 25            | kJ/m <sup>2</sup> |             |
| -20°C                                             | 35            | kJ/m <sup>2</sup> |             |
| 23°C                                              | No Break      |                   |             |
| Thermal                                           | Nominal Value | Unit              | Test Method |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 60.0          | °C                | ISO 75-2/A  |
| Vicat Softening Temperature                       |               |                   |             |
| --                                                | 140           | °C                | ISO 306/A50 |
| --                                                | 65.0          | °C                | ISO 306/B50 |

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