

LG ABS HF380 (High Flow)



Application

Electric and Electronic, Automotive Goods, Miscellaneous

Feature

LG High Flow ABS HF380 provides high melt flow index as well as impact strength. It provides well balanced mechanical properties and processing abilities.

| Properties | Test Method | Test Condition | Unit | Value |
|--|---------------|---|--------------------|---------|
| Physical | | | | |
| Specific Gravity | ASTM D792 | | – | 1.04 |
| Molding Shrinkage | ASTM D955 | | % | 0.4~0.7 |
| Melt Flow Index | ASTM D1238(G) | 200°C/ 5kg | g/10min | 4 |
| | – | 220°C/ 10kg | g/10min | 43 |
| | ASTM D1238(I) | 230°C/ 3.8kg | g/10min | 15 |
| Mechanical | | | | |
| Tensile Strength at yield | ASTM D638 | 50mm/min | kg/cm ² | 450 |
| Tensile Modulus | ASTM D638 | 1mm/min | kg/cm ² | 21,900 |
| Elongation at yield | ASTM D638 | 50mm/min | % | Min. 5 |
| Elongation at break | ASTM D638 | 50mm/min | % | Min. 10 |
| Flexural Strength at yield | ASTM D790 | 15mm/min | kg/cm ² | 720 |
| Flexural Modules | ASTM D790 | 15mm/min | kg/cm ² | 24,500 |
| Izod Impact Strength (Noched) | ASTM D256 | 1/4" , '23°C | kg·cm/cm | 25 |
| | | 1/4" , '-30°C | kg·cm/cm | 12 |
| | | 1/8" , '23°C | kg·cm/cm | 27 |
| | | 1/8" , '-30°C | kg·cm/cm | 12 |
| Rockwell Hardness | ASTM D785 | R-Scale | – | 106 |
| Thermal | | | | |
| Heat Deflection Temp | ASTM D648 | 18.5kg/cm ² , 1/4" (unannealed) | °C | 86 |
| | | 4.6kg/cm ² , 1/4" (unannealed) | °C | 89 |
| Vicat Softening Temp | ASTM D1525 | 5kg, 50°C/h | °C | 94 |
| Flammability | UL94 | 1/8" | class | HB |
| | | 1/10" | class | HB |
| | | 1/16" | class | HB |
| Relative Temp Index | UL 746B | Elec | °C | 60 |
| | | Mech w/impact | °C | 60 |
| | | Mech w/o impact | °C | 60 |
| Recommended Processing Condition | | | | |
| Injection molding–Melt temperature | | | °C | 200~230 |
| Injection molding–Mold temperature | | | °C | 40~80 |
| Injection molding–Pre-drying Temperature | | | °C | 70~80 |
| Injection molding–Pre-drying Time | | | hrs | 2~3 |

* These property values are typical representative for natural color and are not intended for specification purpose.

When pigments are loaded, there might be slight change in the properties.

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