

# Retardancy Document



## Flame Retardant ABS Characteristics

| Properties               | ASTM Test Method | Test Condition     | Unit                               | Flame Retardant                                |
|--------------------------|------------------|--------------------|------------------------------------|--|
|                          |                  |                    |                                    | Part No. - MCRL6655                            |
| Melt Flow Index          | D1238            | 200°C, 5 Kg        | g/10 min                           | 4.6  |
|                          |                  | 220°C, 10 Kg       |                                    | -  |
| Mass Density             | D792             | 23°C               | -                                  | 1.17   |
| Hardness                 | D785             | -                  | R Scale                            | 101  |
| Tensile Strength (Yield) | D638             | 6mm/min            | Kg/cm <sup>2</sup>                 | 400  |
|                          |                  |                    | lb/in <sup>2</sup>                 | 5,670  |
| Tensile Elongation       | D638             | 6mm/min            | %                                  | 20   |
| Flexural Strength        | D790             | 2.8mm/min          | Kg/cm <sup>2</sup>                 | 640  |
|                          |                  |                    | lb/in <sup>2</sup>                 | 9,070  |
| Flexural Modulus         | D790             | 2.8mm/min          | 10 <sup>4</sup> kg/cm <sup>2</sup> | 2.3  |
|                          |                  |                    | 10 <sup>5</sup> lb/in <sup>2</sup> | 3.2  |
| Izod Impact Strength     | D256 (Notched)   | 6.4mm, 23°C        | kg-cm/cm                           | 20   |
|                          |                  |                    | ft-lb/in                           | 3.7  |
|                          |                  | 3.2mm, 23°C        | kg-cm/cm                           | 24   |
|                          |                  |                    | ft-lb/in                           | 4.4  |
| Vicat Softening Temp.    | D1525            | 1 kg,50°C/hr       | °C                                 | 92   |
|                          |                  |                    | °F                                 | 198  |
| Heat Distortion Temp.    | D648             | 1.8 MPa Annealed   | °C                                 | 85   |
|                          |                  |                    | °F                                 | 185  |
|                          |                  | 1.8 MPa Unannealed | °C                                 | 76   |
|                          |                  |                    | °F                                 | 169  |
| UL Flammability          | UL 94            | -                  | -                                  | 1.5mm V-1<br>2.5mm V-0<br>2.5mm 5VB<br>3mm 5VA |

Notes : These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

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| <b>Part Number</b> |
| MCRL6655           |

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