

# EXCELINK DATA SHEET

ENEOS Materials Corporation  
Sales & Marketing Division  
1-9-2,Higashi-Shinbashi,Minato-ku  
Tokyo,Japan

09-Jun-22

| Properties                     | Unit     | Testing Method | 1301B |
|--------------------------------|----------|----------------|-------|
| Hardness(15sec delay)          | -        | ISO 868        | 38    |
| Density                        | -        | ISO 1183       | 0.89  |
| Melt Flow Rate(190°C,21N)      | g/10min. | ISO 1133       | -     |
| Melt Flow Rate(190°C,49N)      | g/10min. | ISO 1133       | 50.0  |
| Melt Flow Rate(230°C,21N)      | g/10min. | ISO 1133       | -     |
| Melt Flow Rate(230°C,49N)      | g/10min. | ISO 1133       | -     |
| Modulus at 100% Elongation     | MPa      | ISO 37         | 1.0   |
| Tensile Strength at Break      | MPa      | ISO 37         | 3.2   |
| Elongation at Break            | %        | ISO 37         | 550   |
| Tear Strength                  | kN/m     | ISO 34         | 14    |
| Compression Set(22hrs at 70°C) | %        | ISO 815        | 33    |
| Gloss                          | %        | ISO 2813       | 2     |
| Low-Temp. Brittleness          | °C       | ISO 812        | <-50  |

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Tokyo,Japan

09-Jun-22

| Properties                     | Unit     | Testing Method | 1303B |
|--------------------------------|----------|----------------|-------|
| Hardness(15sec delay)          | -        | ISO 868        | 38    |
| Density                        | -        | ISO 1183       | 0.88  |
| Melt Flow Rate(190°C,21N)      | g/10min. | ISO 1133       | -     |
| Melt Flow Rate(190°C,49N)      | g/10min. | ISO 1133       | -     |
| Melt Flow Rate(230°C,21N)      | g/10min. | ISO 1133       | 2.0   |
| Melt Flow Rate(230°C,49N)      | g/10min. | ISO 1133       | -     |
| Modulus at 100% Elongation     | MPa      | ISO 37         | 1.0   |
| Tensile Strength at Break      | MPa      | ISO 37         | 3.0   |
| Elongation at Break            | %        | ISO 37         | 550   |
| Tear Strength                  | kN/m     | ISO 34         | 14    |
| Compression Set(22hrs at 70°C) | %        | ISO 815        | 43    |
| Gloss                          | %        | ISO 2813       | 15    |
| Low-Temp. Brittleness          | °C       | ISO 812        | <-50  |

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09-Jun-22

| Properties                     | Unit     | Testing Method | 1309B |
|--------------------------------|----------|----------------|-------|
| Hardness(15sec delay)          | -        | ISO 868        | 36    |
| Density                        | -        | ISO 1183       | 0.88  |
| Melt Flow Rate(190°C,21N)      | g/10min. | ISO 1133       | 8.0   |
| Melt Flow Rate(190°C,49N)      | g/10min. | ISO 1133       | -     |
| Melt Flow Rate(230°C,21N)      | g/10min. | ISO 1133       | -     |
| Melt Flow Rate(230°C,49N)      | g/10min. | ISO 1133       | -     |
| Modulus at 100% Elongation     | MPa      | ISO 37         | 0.9   |
| Tensile Strength at Break      | MPa      | ISO 37         | 3.5   |
| Elongation at Break            | %        | ISO 37         | 500   |
| Tear Strength                  | kN/m     | ISO 34         | 14    |
| Compression Set(22hrs at 70°C) | %        | ISO 815        | 26    |
| Gloss                          | %        | ISO 2813       | 2     |
| Low-Temp. Brittleness          | °C       | ISO 812        | <-50  |

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09-Jun-22

| Properties                     | Unit     | Testing Method | 1404B |
|--------------------------------|----------|----------------|-------|
| Hardness(15sec delay)          | -        | ISO 868        | 45    |
| Density                        | -        | ISO 1183       | 0.89  |
| Melt Flow Rate(190°C,21N)      | g/10min. | ISO 1133       | -     |
| Melt Flow Rate(190°C,49N)      | g/10min. | ISO 1133       | -     |
| Melt Flow Rate(230°C,21N)      | g/10min. | ISO 1133       | 3.0   |
| Melt Flow Rate(230°C,49N)      | g/10min. | ISO 1133       | -     |
| Modulus at 100% Elongation     | MPa      | ISO 37         | 1.2   |
| Tensile Strength at Break      | MPa      | ISO 37         | 3.3   |
| Elongation at Break            | %        | ISO 37         | 550   |
| Tear Strength                  | kN/m     | ISO 34         | 16    |
| Compression Set(22hrs at 70°C) | %        | ISO 815        | 47    |
| Gloss                          | %        | ISO 2813       | 20    |
| Low-Temp. Brittleness          | °C       | ISO 812        | <-50  |

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ENEOS Materials Corporation  
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09-Jun-22

| Properties                     | Unit     | Testing Method | 1406B |
|--------------------------------|----------|----------------|-------|
| Hardness(15sec delay)          | -        | ISO 868        | 43    |
| Density                        | -        | ISO 1183       | 0.88  |
| Melt Flow Rate(190°C,21N)      | g/10min. | ISO 1133       | -     |
| Melt Flow Rate(190°C,49N)      | g/10min. | ISO 1133       | -     |
| Melt Flow Rate(230°C,21N)      | g/10min. | ISO 1133       | 13.0  |
| Melt Flow Rate(230°C,49N)      | g/10min. | ISO 1133       | -     |
| Modulus at 100% Elongation     | MPa      | ISO 37         | 1.1   |
| Tensile Strength at Break      | MPa      | ISO 37         | 3.5   |
| Elongation at Break            | %        | ISO 37         | 550   |
| Tear Strength                  | kN/m     | ISO 34         | 15    |
| Compression Set(22hrs at 70°C) | %        | ISO 815        | 41    |
| Gloss                          | %        | ISO 2813       | 20    |
| Low-Temp. Brittleness          | °C       | ISO 812        | <-50  |

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09-Jun-22

| <b>Properties</b>                     | <b>Unit</b>     | <b>Testing Method</b> | <b>1504B</b>   |
|---------------------------------------|-----------------|-----------------------|----------------|
| <b>Hardness(15sec delay)</b>          | -               | <b>ISO 868</b>        | <b>54</b>      |
| <b>Density</b>                        | -               | <b>ISO 1183</b>       | <b>0.89</b>    |
| <b>Melt Flow Rate(190°C,21N)</b>      | <b>g/10min.</b> | <b>ISO 1133</b>       | -              |
| <b>Melt Flow Rate(190°C,49N)</b>      | <b>g/10min.</b> | <b>ISO 1133</b>       | -              |
| <b>Melt Flow Rate(230°C,21N)</b>      | <b>g/10min.</b> | <b>ISO 1133</b>       | <b>1.5</b>     |
| <b>Melt Flow Rate(230°C,49N)</b>      | <b>g/10min.</b> | <b>ISO 1133</b>       | -              |
| <b>Modulus at 100% Elongation</b>     | <b>MPa</b>      | <b>ISO 37</b>         | <b>1.5</b>     |
| <b>Tensile Strength at Break</b>      | <b>MPa</b>      | <b>ISO 37</b>         | <b>4.5</b>     |
| <b>Elongation at Break</b>            | <b>%</b>        | <b>ISO 37</b>         | <b>550</b>     |
| <b>Tear Strength</b>                  | <b>kN/m</b>     | <b>ISO 34</b>         | <b>20</b>      |
| <b>Compression Set(22hrs at 70°C)</b> | <b>%</b>        | <b>ISO 815</b>        | <b>43</b>      |
| <b>Gloss</b>                          | <b>%</b>        | <b>ISO 2813</b>       | <b>20</b>      |
| <b>Low-Temp. Brittleness</b>          | <b>°C</b>       | <b>ISO 812</b>        | <b>&lt;-50</b> |

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ENEOS Materials Corporation  
Sales & Marketing Division  
1-9-2,Higashi-Shinbashi,Minato-ku  
Tokyo,Japan

25-Jul-22

| Properties                     | Unit     | Testing Method | 1601B |
|--------------------------------|----------|----------------|-------|
| Hardness(15sec delay)          | -        | ISO 868        | 60    |
| Density                        | -        | ISO 1183       | 0.88  |
| Melt Flow Rate(190°C,21N)      | g/10min. | ISO 1133       | -     |
| Melt Flow Rate(190°C,49N)      | g/10min. | ISO 1133       | -     |
| Melt Flow Rate(230°C,21N)      | g/10min. | ISO 1133       | 12.0  |
| Melt Flow Rate(230°C,49N)      | g/10min. | ISO 1133       | -     |
| Modulus at 100% Elongation     | MPa      | ISO 37         | 1.8   |
| Tensile Strength at Break      | MPa      | ISO 37         | 4.5   |
| Elongation at Break            | %        | ISO 37         | 600   |
| Tear Strength                  | kN/m     | ISO 34         | 22    |
| Compression Set(22hrs at 70°C) | %        | ISO 815        | 46    |
| Gloss                          | %        | ISO 2813       | 20    |
| Low-Temp. Brittleness          | °C       | ISO 812        | <-50  |

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ENEOS Materials Corporation  
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Tokyo,Japan

09-Jun-22

| Properties                     | Unit     | Testing Method | 1703B |
|--------------------------------|----------|----------------|-------|
| Hardness(15sec delay)          | -        | ISO 868        | 72    |
| Density                        | -        | ISO 1183       | 0.89  |
| Melt Flow Rate(190°C,21N)      | g/10min. | ISO 1133       | 2.0   |
| Melt Flow Rate(190°C,49N)      | g/10min. | ISO 1133       | -     |
| Melt Flow Rate(230°C,21N)      | g/10min. | ISO 1133       | -     |
| Melt Flow Rate(230°C,49N)      | g/10min. | ISO 1133       | -     |
| Modulus at 100% Elongation     | MPa      | ISO 37         | 2.5   |
| Tensile Strength at Break      | MPa      | ISO 37         | 7.0   |
| Elongation at Break            | %        | ISO 37         | 650   |
| Tear Strength                  | kN/m     | ISO 34         | 31    |
| Compression Set(22hrs at 70°C) | %        | ISO 815        | 54    |
| Gloss                          | %        | ISO 2813       | 35    |
| Low-Temp. Brittleness          | °C       | ISO 812        | <-50  |

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Tokyo,Japan

09-Jun-22

| Properties                     | Unit     | Testing Method | 1805B |
|--------------------------------|----------|----------------|-------|
| Hardness(15sec delay)          | -        | ISO 868        | 79    |
| Density                        | -        | ISO 1183       | 0.89  |
| Melt Flow Rate(190°C,21N)      | g/10min. | ISO 1133       | -     |
| Melt Flow Rate(190°C,49N)      | g/10min. | ISO 1133       | -     |
| Melt Flow Rate(230°C,21N)      | g/10min. | ISO 1133       | 20.0  |
| Melt Flow Rate(230°C,49N)      | g/10min. | ISO 1133       | -     |
| Modulus at 100% Elongation     | MPa      | ISO 37         | 3.1   |
| Tensile Strength at Break      | MPa      | ISO 37         | 8.0   |
| Elongation at Break            | %        | ISO 37         | 650   |
| Tear Strength                  | kN/m     | ISO 34         | 37    |
| Compression Set(22hrs at 70°C) | %        | ISO 815        | 57    |
| Gloss                          | %        | ISO 2813       | 40    |
| Low-Temp. Brittleness          | °C       | ISO 812        | <-50  |

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Tokyo,Japan

09-Jun-22

| Properties                     | Unit     | Testing Method | 1810B |
|--------------------------------|----------|----------------|-------|
| Hardness(15sec delay)          | -        | ISO 868        | 79    |
| Density                        | -        | ISO 1183       | 0.89  |
| Melt Flow Rate(190°C,21N)      | g/10min. | ISO 1133       | -     |
| Melt Flow Rate(190°C,49N)      | g/10min. | ISO 1133       | -     |
| Melt Flow Rate(230°C,21N)      | g/10min. | ISO 1133       | 55.0  |
| Melt Flow Rate(230°C,49N)      | g/10min. | ISO 1133       | -     |
| Modulus at 100% Elongation     | MPa      | ISO 37         | 3.1   |
| Tensile Strength at Break      | MPa      | ISO 37         | 7.5   |
| Elongation at Break            | %        | ISO 37         | 650   |
| Tear Strength                  | kN/m     | ISO 34         | 34    |
| Compression Set(22hrs at 70°C) | %        | ISO 815        | 55    |
| Gloss                          | %        | ISO 2813       | 20    |
| Low-Temp. Brittleness          | °C       | ISO 812        | <-50  |

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Tokyo,Japan

21-Jul-22

| Properties                     | Unit     | Testing Method | TEL2416 |
|--------------------------------|----------|----------------|---------|
| Hardness(15sec delay)          | -        | ISO 868        | 23      |
| Density                        | -        | ISO 1183       | 0.88    |
| Melt Flow Rate(190°C,21N)      | g/10min. | ISO 1133       | 4.0     |
| Melt Flow Rate(190°C,49N)      | g/10min. | ISO 1133       | -       |
| Melt Flow Rate(230°C,21N)      | g/10min. | ISO 1133       | -       |
| Melt Flow Rate(230°C,49N)      | g/10min. | ISO 1133       | -       |
| Modulus at 100% Elongation     | MPa      | ISO 37         | 0.6     |
| Tensile Strength at Break      | MPa      | ISO 37         | 2.5     |
| Elongation at Break            | %        | ISO 37         | 590     |
| Tear Strength                  | kN/m     | ISO 34         | 11      |
| Compression Set(22hrs at 70°C) | %        | ISO 815        | 25      |
| Gloss                          | %        | ISO 2813       | 2       |
| Low-Temp. Brittleness          | °C       | ISO 812        | <-50    |

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