

# POCAN® B 3235 XF 000000

Polybutylene Terephthalate

LANXESS GmbH

## Message:

PBT, 30 % glass fibers, injection molding, improved flowability

| General Information                                           |                                                       |                        |             |
|---------------------------------------------------------------|-------------------------------------------------------|------------------------|-------------|
| UL YellowCard                                                 | E245249-100129047                                     |                        |             |
| Filler / Reinforcement                                        | Glass fiber reinforced material, 30% filler by weight |                        |             |
| Features                                                      | Good liquidity                                        |                        |             |
| Agency Ratings                                                | EC 1907/2006 (REACH)                                  |                        |             |
| Processing Method                                             | Injection molding                                     |                        |             |
| Physical                                                      | Nominal Value                                         | Unit                   | Test Method |
| Density (23°C)                                                | 1.47                                                  | g/cm <sup>3</sup>      | ISO 1183    |
| Apparent Density                                              | 0.65                                                  | g/cm <sup>3</sup>      | ISO 60      |
| Melt Volume-Flow Rate (MVR) (260°C/2.16 kg)                   | 20.0                                                  | cm <sup>3</sup> /10min | ISO 1133    |
| Molding Shrinkage                                             |                                                       |                        | ISO 294-4   |
| Vertical flow direction: 260°C, 2.00mm <sup>1</sup>           | 1.0                                                   | %                      | ISO 294-4   |
| Vertical flow direction: 150°C, 48 hours, 2.00mm <sup>2</sup> | 0.10                                                  | %                      | ISO 294-4   |
| Flow direction: 260°C, 2.00mm <sup>3</sup>                    | 0.40                                                  | %                      | ISO 294-4   |
| Flow direction: 150°C, 48 hours, 2.00mm <sup>4</sup>          | 0.10                                                  | %                      | ISO 294-4   |
| Hardness                                                      | Nominal Value                                         | Unit                   | Test Method |
| Ball Indentation Hardness                                     | 145                                                   | MPa                    | ISO 2039-1  |
| Mechanical                                                    | Nominal Value                                         | Unit                   | Test Method |
| Tensile Modulus (23°C)                                        | 9200                                                  | MPa                    | ISO 527-2/1 |
| Tensile Stress (Break, 23°C)                                  | 125                                                   | MPa                    | ISO 527-2/5 |
| Tensile Strain (Break, 23°C)                                  | 2.7                                                   | %                      | ISO 527-2/5 |
| Flexural Modulus <sup>5</sup> (23°C)                          | 8700                                                  | MPa                    | ISO 178/A   |
| Flexural Stress <sup>6</sup> (23°C)                           | 195                                                   | MPa                    | ISO 178     |
| Flexural Strain at Flexural Strength <sup>7</sup> (23°C)      | 3.3                                                   | %                      |             |
| Burning Behavior <sup>8</sup>                                 | passed                                                |                        | ISO 3795    |
| ISO Shortname                                                 | PBT, GHMR, 07-090, GF30                               |                        | ISO 7792    |
| Residual Moisture Content                                     | 0.0 - 0.020                                           | %                      | Karl Fisher |
| Impact                                                        | Nominal Value                                         | Unit                   | Test Method |
| Charpy Notched Impact Strength                                |                                                       |                        | ISO 179/1eA |
| -30°C                                                         | 10                                                    | kJ/m <sup>2</sup>      | ISO 179/1eA |
| 23°C                                                          | 10                                                    | kJ/m <sup>2</sup>      | ISO 179/1eA |
| Charpy Unnotched Impact Strength                              |                                                       |                        | ISO 179/1eU |

| -30°C                                    | 60                          | kJ/m <sup>2</sup> | ISO 179/1eU    |
|------------------------------------------|-----------------------------|-------------------|----------------|
| 23°C                                     | 60                          | kJ/m <sup>2</sup> | ISO 179/1eU    |
| Notched Izod Impact                      |                             |                   | ISO 180/1A     |
| -30°C                                    | 10                          | kJ/m <sup>2</sup> | ISO 180/1A     |
| 23°C                                     | 11                          | kJ/m <sup>2</sup> | ISO 180/1A     |
| Unnotched Izod Impact Strength           |                             |                   | ISO 180/1U     |
| -30°C                                    | 55                          | kJ/m <sup>2</sup> | ISO 180/1U     |
| 23°C                                     | 55                          | kJ/m <sup>2</sup> | ISO 180/1U     |
| Thermal                                  | Nominal Value               | Unit              | Test Method    |
| Heat Deflection Temperature              |                             |                   |                |
| 0.45 MPa, not annealed                   | 220                         | °C                | ISO 75-2/B     |
| 1.8 MPa, not annealed                    | 205                         | °C                | ISO 75-2/A     |
| 8.0 MPa, not annealed                    | 165                         | °C                | ISO 75-2/C     |
| Vicat Softening Temperature              | 210                         | °C                | ISO 306/B120   |
| Melting Temperature <sup>9</sup>         | 225                         | °C                | ISO 11357-3    |
| Linear thermal expansion coefficient     |                             |                   | ISO 11359-2    |
| Flow: 23 to 55°C                         | 3.0E-5                      | cm/cm/°C          | ISO 11359-2    |
| Lateral: 23 to 55°C                      | 1.1E-4                      | cm/cm/°C          | ISO 11359-2    |
| Electrical                               | Nominal Value               | Unit              | Test Method    |
| Comparative Tracking Index (Solution A)  | 450                         | V                 | IEC 60112      |
| Flammability                             | Nominal Value               | Unit              | Test Method    |
| Flame Rating                             |                             |                   | UL 94          |
| 0.750 mm                                 | HB                          |                   | UL 94          |
| 1.60 mm                                  | HB                          |                   | UL 94          |
| Glow Wire Flammability Index (2.00 mm)   | 750                         | °C                | IEC 60695-2-12 |
| Glow Wire Ignition Temperature (2.00 mm) | 775                         | °C                | IEC 60695-2-13 |
| Injection                                | Nominal Value               | Unit              | Test Method    |
| Drying Temperature - Circulation Dryer   | 120                         | °C                |                |
| Drying Time - Circulation Dryer          | 4.0 - 8.0                   | hr                |                |
| Processing (Melt) Temp                   | 250 - 270                   | °C                |                |
| Mold Temperature                         | 80.0 - 100                  | °C                |                |
| NOTE                                     |                             |                   |                |
| 1.                                       | 60x60x2; MT 80°C; 600 Bar   |                   |                |
| 2.                                       | 60x60x2                     |                   |                |
| 3.                                       | 60x60x2; MT 80°C; 600 Bar   |                   |                |
| 4.                                       | 60x60x2                     |                   |                |
| 5.                                       | 2.0 mm/min                  |                   |                |
| 6.                                       | 2.0 mm/min                  |                   |                |
| 7.                                       | Pull Rate: 2 mm/min; 50% RH |                   |                |
| 8.                                       | US-FMVSS302                 |                   |                |
| 9.                                       | 10°C/min                    |                   |                |

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