

## Schulablend (ASA/PA) M/MW NC 100

Acrylonitrile Styrene Acrylate + PA

LyondellBasell Industries

Engineering Plastics

### Product Description

Nanocomposite based on ASA/PA-blend for high dimensional stability

### General

|                   |                              |
|-------------------|------------------------------|
| Features          | • Good Dimensional Stability |
| Processing Method | • Injection Molding          |

| Physical                                   | Dry              | Conditioned      | Unit                                          | Test Method     |
|--------------------------------------------|------------------|------------------|-----------------------------------------------|-----------------|
| Density                                    | 1.18             | --               | g/cm <sup>3</sup>                             | ISO 1183/A      |
| Melt Volume-Flow Rate (MVR) (250°C/5.0 Kg) | 6.0              | --               | cm <sup>3</sup> /10min                        | ISO 1133        |
| Mechanical                                 | Dry              | Conditioned      | Unit                                          | Test Method     |
| Tensile Modulus                            | 450000<br>(3100) | 276000<br>(1900) | psi<br>(MPa)                                  | ISO 527-1/1A/1  |
| Tensile Stress (Yield)                     | 7400<br>(51.0)   | 4930<br>(34.0)   | psi<br>(MPa)                                  | ISO 527-2/1A/50 |
| Tensile Strain (Yield)                     | 3.1              | 4.7              | %                                             | ISO 527-2/1A/50 |
| Impact                                     | Dry              | Conditioned      | Unit                                          | Test Method     |
| Charpy Notched Impact Strength             |                  |                  |                                               | ISO 179/1eA     |
| -22°F (-30°C)                              | 1.9<br>(4.0)     | --               | ft·lb/in <sup>2</sup><br>(kJ/m <sup>2</sup> ) |                 |
| 73°F (23°C)                                | 4.8<br>(10)      | 9.0<br>(19)      | ft·lb/in <sup>2</sup><br>(kJ/m <sup>2</sup> ) |                 |
| Charpy Unnotched Impact Strength           |                  |                  |                                               | ISO 179/1eU     |
| -22°F (-30°C)                              | 36<br>(75)       | --               | ft·lb/in <sup>2</sup><br>(kJ/m <sup>2</sup> ) |                 |
| 73°F (23°C)                                | No Break         | No Break         |                                               |                 |
| Hardness                                   | Dry              | Conditioned      | Unit                                          | Test Method     |
| Ball Indentation Hardness (H 358/10)       | 14600<br>(101)   | --               | psi<br>(MPa)                                  | ISO 2039-1      |
| Thermal                                    | Dry              | Conditioned      | Unit                                          | Test Method     |
| Deflection Temperature Under Load          |                  |                  |                                               |                 |
| 66 Psi (0.45 Mpa), Unannealed              | 205<br>(96.0)    | --               | °F<br>(°C)                                    | ISO 75-2/Bf     |
| 264 Psi (1.8 Mpa), Unannealed              | 172<br>(78.0)    | --               | °F<br>(°C)                                    | ISO 75-2/Af     |
| Vicat Softening Temperature                |                  |                  |                                               |                 |
| --                                         | 230<br>(110)     | --               | °F<br>(°C)                                    | ISO 306/B50     |
| --                                         | 363<br>(184)     | --               | °F<br>(°C)                                    | ISO 306/A50     |



## Schulablend (ASA/PA) M/MW NC 100

Acrylonitrile Styrene Acrylate + PA

LyondellBasell Industries

Engineering Plastics

| Flammability                       | Dry           | Conditioned | Unit               | Test Method             |
|------------------------------------|---------------|-------------|--------------------|-------------------------|
| Burning Rate (0.0787 In (2.00 Mm)) | 1.2<br>(30)   | --          | in/min<br>(mm/min) | ISO 3795                |
| Flammability Classification        |               |             |                    | IEC 60695-11-10,<br>-20 |
| 0.06 In (1.5 Mm)                   | HB            | --          |                    |                         |
| 0.12 In (3.0 Mm)                   | HB            | --          |                    |                         |
| Glow Wire Flammability Index       |               |             |                    | IEC 60695-2-12          |
| 0.06 In (1.5 Mm)                   | 1250<br>(675) | --          | °F<br>(°C)         |                         |
| 0.12 In (3.0 Mm)                   | 1250<br>(675) | --          | °F<br>(°C)         |                         |
| Glow Wire Ignition Temperature     |               |             |                    | IEC 60695-2-13          |
| 0.06 In (1.5 Mm)                   | 1290<br>(700) | --          | °F<br>(°C)         |                         |
| 0.12 In (3.0 Mm)                   | 1290<br>(700) | --          | °F<br>(°C)         |                         |

### Additional Information

The tradename "Schulablend" may be abbreviated "SBL" in documents or on labels.

- 1.) Not for use in food contact applications
- 2.) Not for use in medical or pharmaceutical applications

### Notes

These are typical property values not to be construed as specification limits.

