



Centrex ASA 825A 909089 UVBLK

LyondellBasell Industries - Acrylonitrile Styrene Acrylate

General Information

Product Description

Centrex ASA 825A 909089 UVBLK is a Acrylonitrile Styrene Acrylate material and is typically used in Extrusion, Sheet Extrusion, Thermoforming applications. Features include: Good Melt Strength, Good Weather Resistance, High Gloss, High Impact Resistance, and UV Resistant.

General

| | | | |
|-------------------|---|--|--|
| Features | <ul style="list-style-type: none"> • Good Melt Strength • Good Weather Resistance | <ul style="list-style-type: none"> • High Gloss • High Impact Resistance | <ul style="list-style-type: none"> • UV Resistant |
| Uses | <ul style="list-style-type: none"> • Marine Applications • Outdoor Applications | <ul style="list-style-type: none"> • Sheet • Spas | <ul style="list-style-type: none"> • Thermoforming Applications • Water Sports Equipment |
| Forms | <ul style="list-style-type: none"> • Pellets | | |
| Processing Method | <ul style="list-style-type: none"> • Extrusion | <ul style="list-style-type: none"> • Sheet Extrusion | |

Properties¹

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|----------|-------------|
| Density / Specific Gravity | 1.05 | | ASTM D792 |
| Melt Mass-Flow Rate (MFR) | | | ASTM D1238 |
| 220°C/10.0 kg | 12 | g/10 min | |
| 230°C/3.8 kg | 3.0 | g/10 min | |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus (0.201 in) | 331000 | psi | ASTM D638 |
| Tensile Strength ² (Yield) | 6400 | psi | ASTM D638 |
| Tensile Elongation (Yield) | 2.7 | % | ASTM D638 |
| Flexural Modulus - Tangent ³ | 305000 | psi | ASTM D790 |
| Flexural Strength ³ | 7010 | psi | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | | | ASTM D256 |
| -22°F, 0.125 in | 1.7 | ft-lb/in | |
| 0°F, 0.125 in | 2.1 | ft-lb/in | |
| 73°F, 0.125 in | 3.9 | ft-lb/in | |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 264 psi, Unannealed, 0.125 in | 172 | °F | |
| CLTE - Flow (-40 to 104°F) | 4.5E-5 | in/in/°F | ASTM D696 |
| CLTE - Transverse (-40 to 39°F) | 6.1E-5 | in/in/°F | ASTM D696 |
| RTI Elec | | | UL 746B |
| 0.030 in | 122 | °F | |
| 0.06 in | 122 | °F | |
| 0.12 in | 122 | °F | |
| RTI Imp | | | UL 746B |
| 0.030 in | 122 | °F | |
| 0.06 in | 122 | °F | |
| 0.12 in | 122 | °F | |

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| Thermal | Nominal Value | Unit | Test Method |
|---|----------------------|-------------|--------------------|
| RTI Str | | | UL 746B |
| 0.030 in | 122 | °F | |
| 0.06 in | 122 | °F | |
| 0.12 in | 122 | °F | |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating | | | UL 94 |
| 0.030 in | HB | | |
| 0.06 in | HB | | |
| 0.12 in | HB | | |
| Optical | Nominal Value | Unit | Test Method |
| Gloss (60°, High Gloss Surface, Untextured) | 90 to 100 | | ASTM D2457 |

Processing Information

| Extrusion | Nominal Value | Unit |
|------------------------|----------------------|-------------|
| Drying Temperature | 180 to 199 | °F |
| Drying Time | 3.0 to 4.0 | hr |
| Suggested Max Moisture | < 0.020 | % |
| Suggested Max Re grind | 40 | % |

Notes

¹ Typical properties: these are not to be construed as specifications.

² 0.20 in/min

³ 0.051 in/min