

HOSTAFORM® SlideX® C0304 XAP®2 HOSTAFORM®

POM copolymer Injection molding grade with tribological modification for demanding applications that require prevention of audible noise caused by stick-slip phenomenon. Excellent tribological performance with low friction and low wear under various conditions of sliding against plastics and metals. Reduced emission grade. Emissions according to VDA 275 < 5 mg/kg.

Chemical abbreviation according to ISO 1043-1: POM Molding compound ISO 29988-1: POM-K | M-GNRS2 | 5-2 | - | POM copolymer

Product information

| | | |
|----------------------|-------|-----------|
| Resin Identification | POM | ISO 1043 |
| Part Marking Code | >POM< | ISO 11469 |

Rheological properties

| | | |
|------------------------------|---------------------------|-----------------|
| Melt volume-flow rate | 24 cm ³ /10min | ISO 1133 |
| Temperature | 190 °C | |
| Load | 2.16 kg | |
| Moulding shrinkage, parallel | 1.9 % | ISO 294-4, 2577 |
| Moulding shrinkage, normal | 1.8 % | ISO 294-4, 2577 |

Typical mechanical properties

| | | |
|---------------------------------------|-----------------------|--------------|
| Tensile modulus | 2500 MPa | ISO 527-1/-2 |
| Tensile stress at yield, 50mm/min | 56 MPa | ISO 527-1/-2 |
| Tensile strain at yield, 50mm/min | 8 % | ISO 527-1/-2 |
| Nominal strain at break | 45 % | ISO 527-1/-2 |
| Flexural modulus | 2350 MPa | ISO 178 |
| Flexural strength | 77 MPa | ISO 178 |
| Charpy impact strength, 23°C | 150 kJ/m ² | ISO 179/1eU |
| Charpy impact strength, -30°C | 145 kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength, 23°C | 5.5 kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength, -30°C | 5.5 kJ/m ² | ISO 179/1eA |
| Ball indentation hardness, H 358/30 | 132 MPa | ISO 2039-1 |
| Poisson's ratio | 0.38 ^[C] | |

[C]: Calculated

Thermal properties

| | | |
|--|-----------|----------------|
| Melting temperature, 10°C/min | 166 °C | ISO 11357-1/-3 |
| Temperature of deflection under load, 1.8 MPa | 90 °C | ISO 75-1/-2 |
| Coefficient of linear thermal expansion (CLTE), parallel | 140 E-6/K | ISO 11359-1/-2 |
| Coefficient of linear thermal expansion (CLTE), normal | 140 E-6/K | ISO 11359-1/-2 |

Physical/Other properties

| | | |
|--------------------------|------------------------|----------------|
| Humidity absorption, 2mm | 0.2 % | Sim. to ISO 62 |
| Water absorption, 2mm | 0.65 % | Sim. to ISO 62 |
| Density | 1400 kg/m ³ | ISO 1183 |

HOSTAFORM® SlideX® C0304 XAP®2 HOSTAFORM®

Injection

| | |
|---------------------------------|--------------|
| Drying Recommended | no |
| Drying Temperature | 100 °C |
| Drying Time, Dehumidified Dryer | 3 - 4 h |
| Processing Moisture Content | ≤0.2 % |
| Melt Temperature Optimum | 195 °C |
| Min. melt temperature | 180 °C |
| Max. melt temperature | 210 °C |
| Screw tangential speed | ≤0.3 m/s |
| Mold Temperature Optimum | 100 °C |
| Min. mould temperature | 80 °C |
| Max. mould temperature | 120 °C |
| Hold pressure range | 60 - 120 MPa |
| Back pressure | 4 MPa |
| Ejection temperature | 133 °C |

Characteristics

| | |
|-------------------------|---|
| Processing | Injection Moulding |
| Delivery form | Granules |
| Special characteristics | Low wear / Low friction, High Flow, Low emissions |

Additional information

Injection molding

Processing

See Processing Guide and Involve Celanese FTS support to obtain best quality parts

Processing Notes

Pre-Drying

Drying is not normally required. If material has come in contact with moisture through improper storage or handling or through regrind use, drying may be necessary to prevent splay and odor problems

Storage

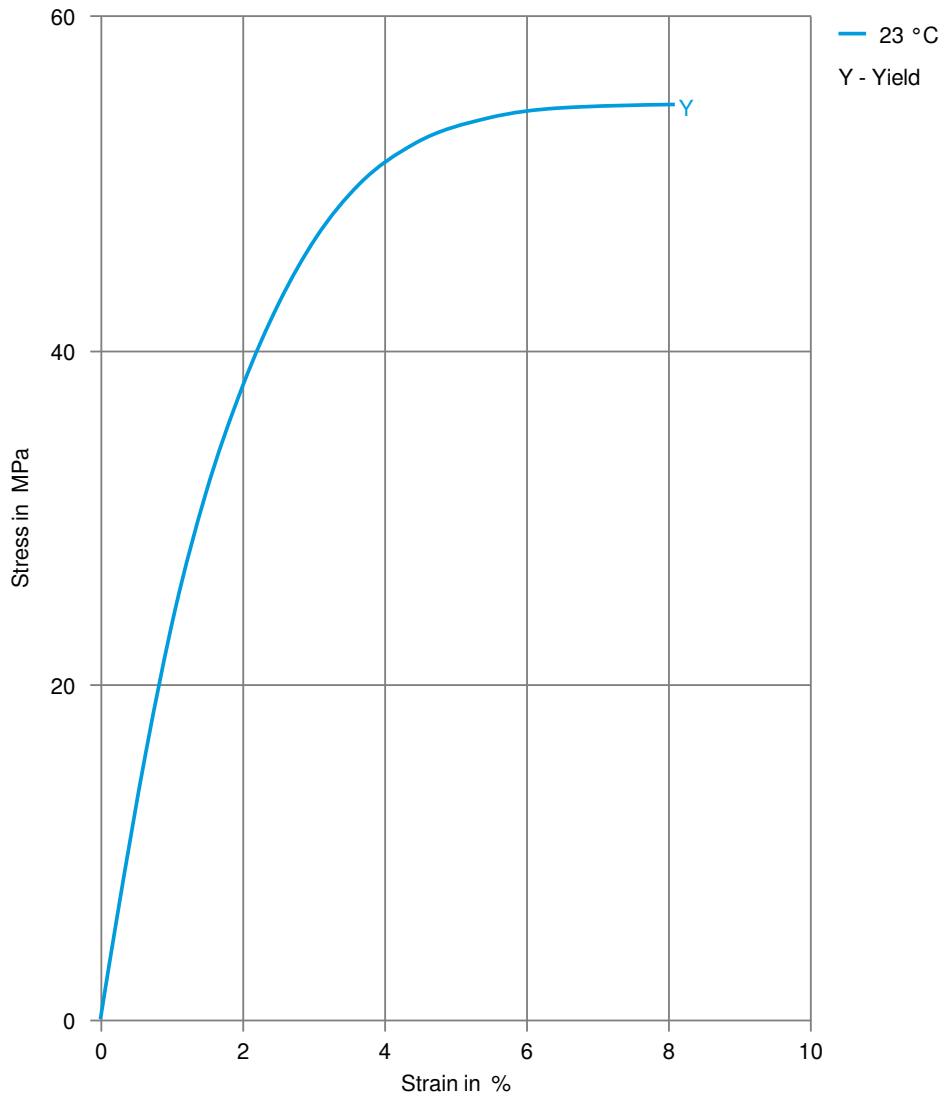
The product can then be stored in standard conditions until processed.

Automotive

| | | |
|---------------|----------|------------------------|
| OEM | STANDARD | ADDITIONAL INFORMATION |
| Mercedes-Benz | DBL5404 | BQF |

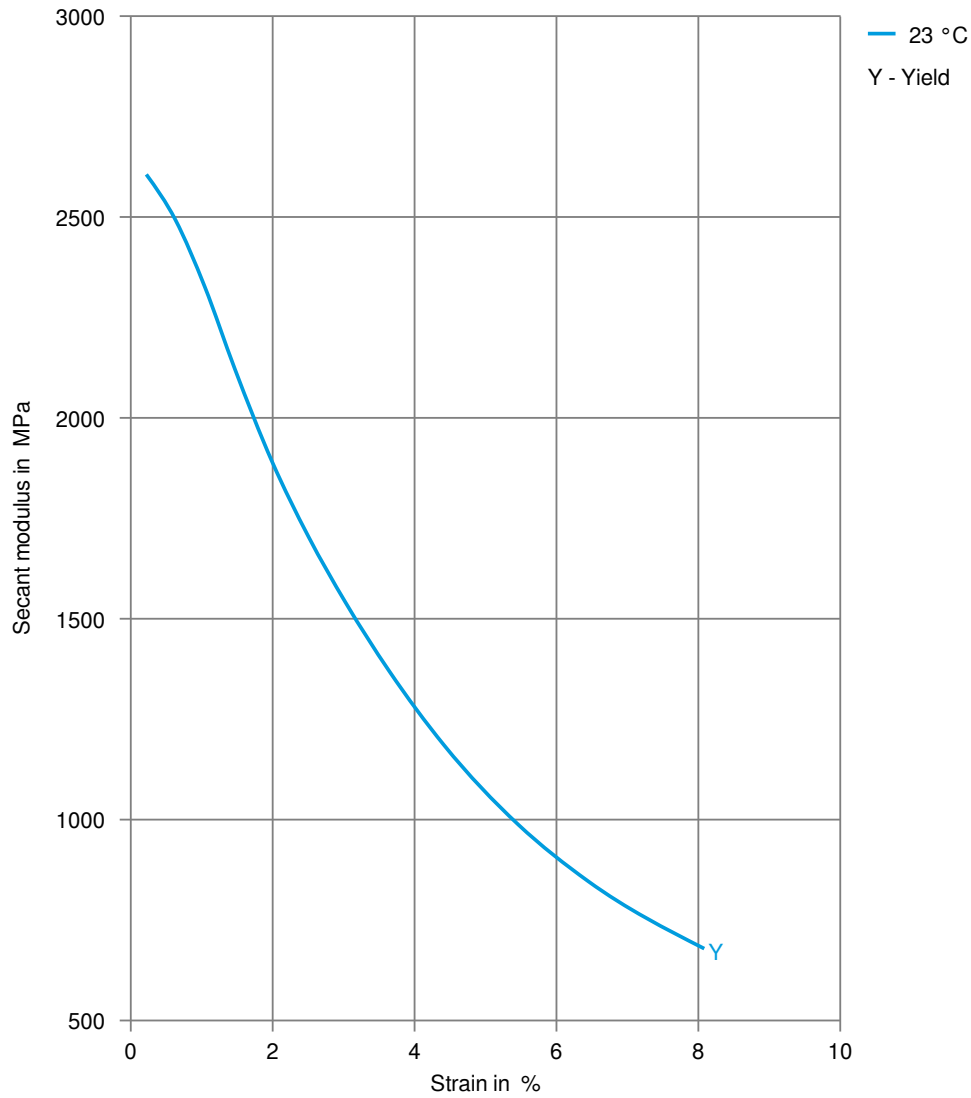
HOSTAFORM® SlideX® C0304 XAP®2
HOSTAFORM®

Stress-strain



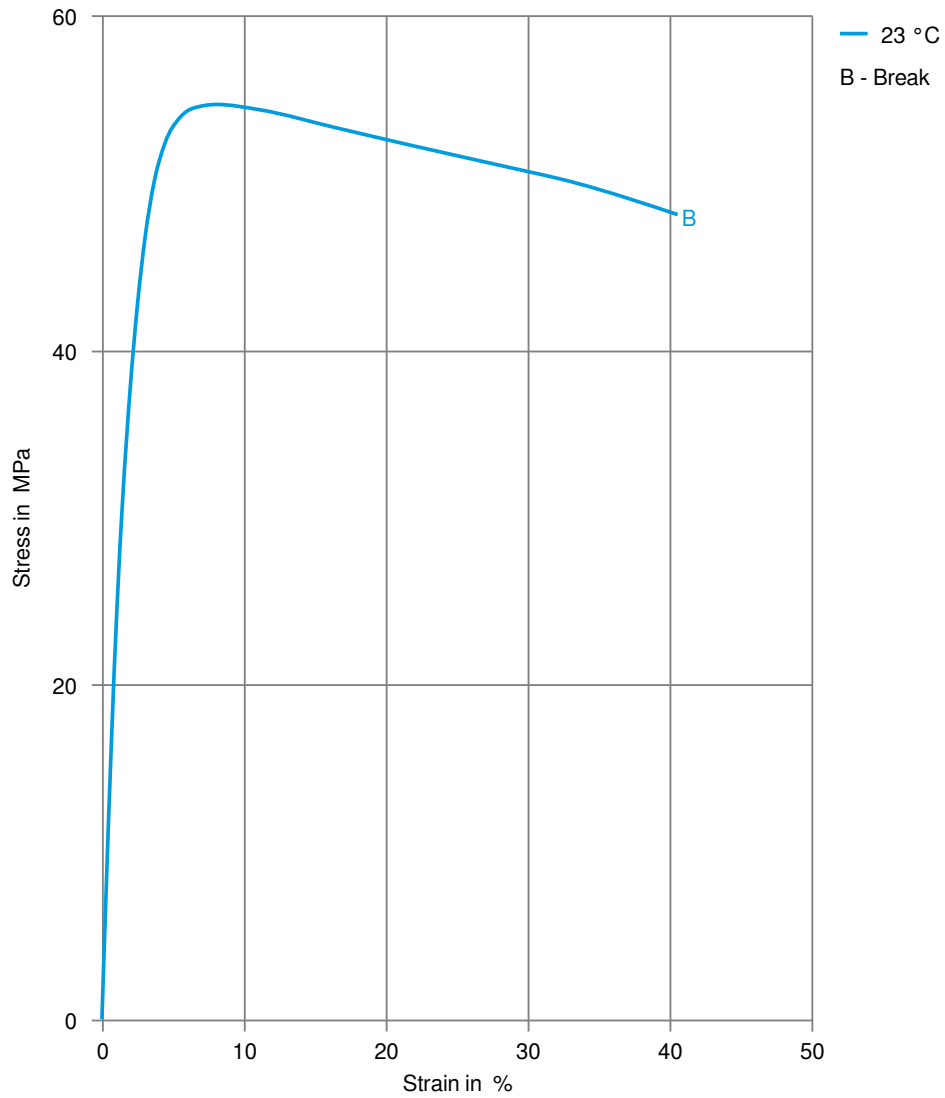
HOSTAFORM® SlideX® C0304 XAP®2
HOSTAFORM®

Secant modulus-strain



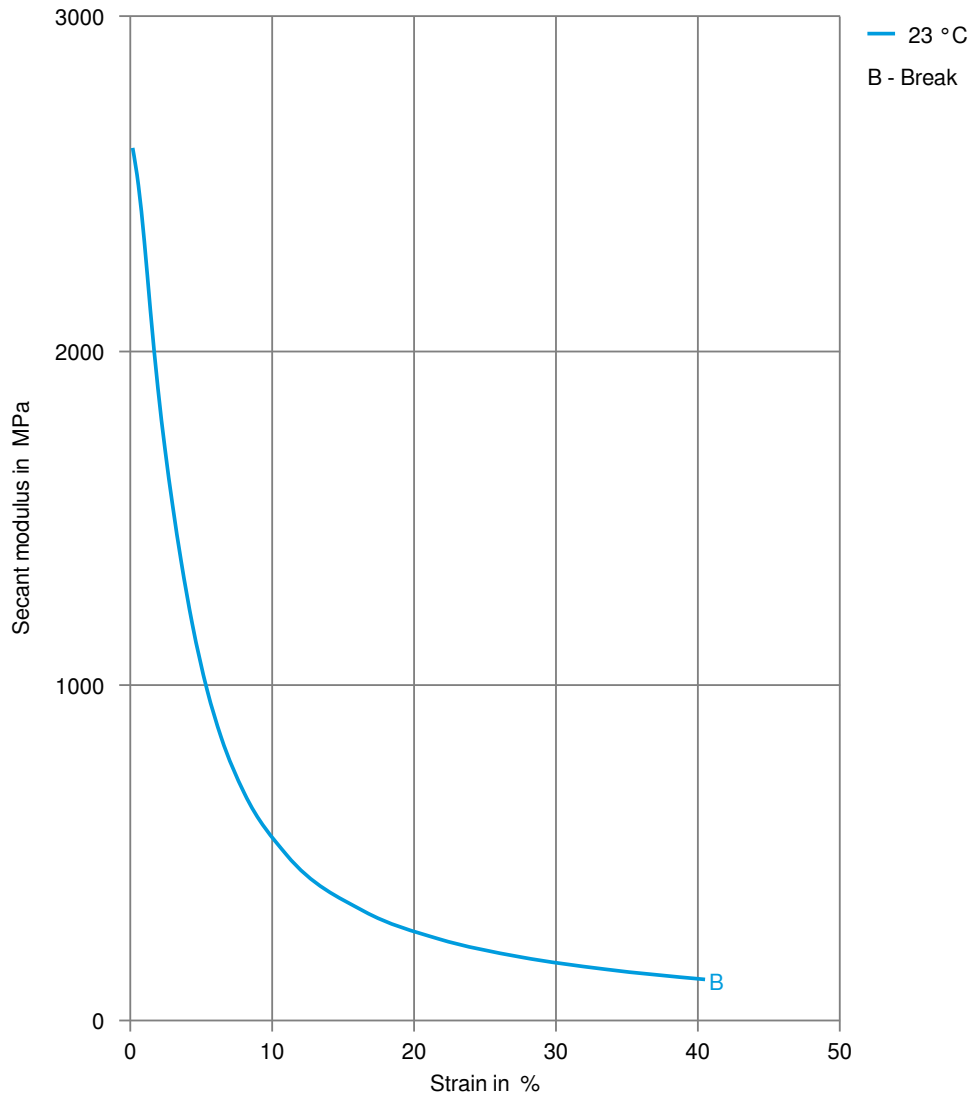
HOSTAFORM® SlideX® C0304 XAP®2
HOSTAFORM®

Stress-strain, 50mm/min



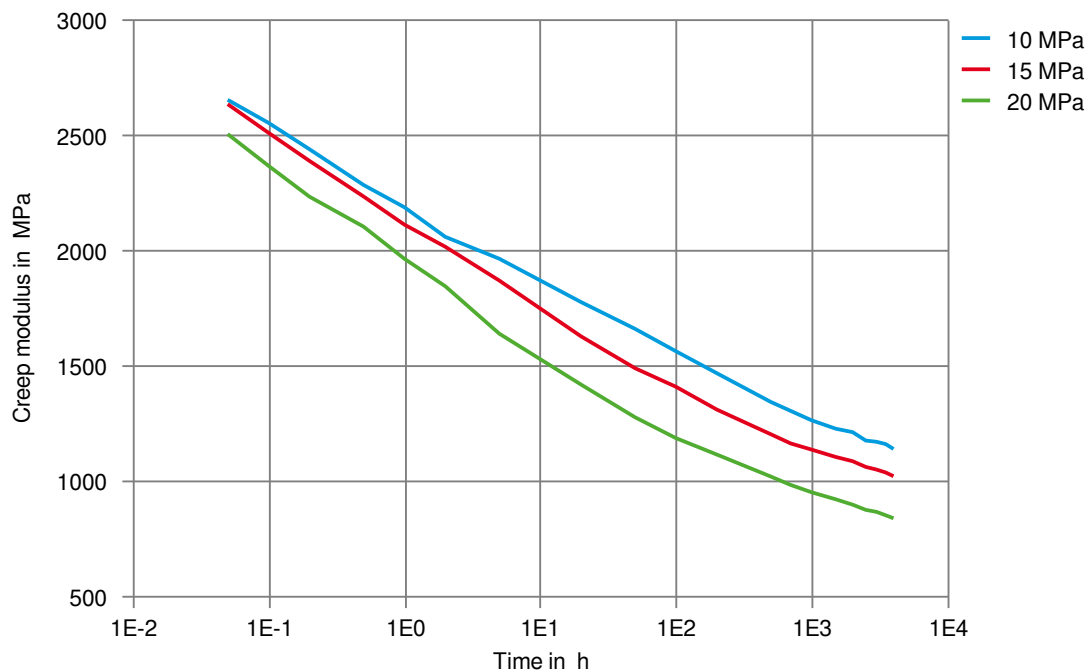
HOSTAFORM® SlideX® C0304 XAP®2
HOSTAFORM®

Secant modulus-strain, 50mm/min



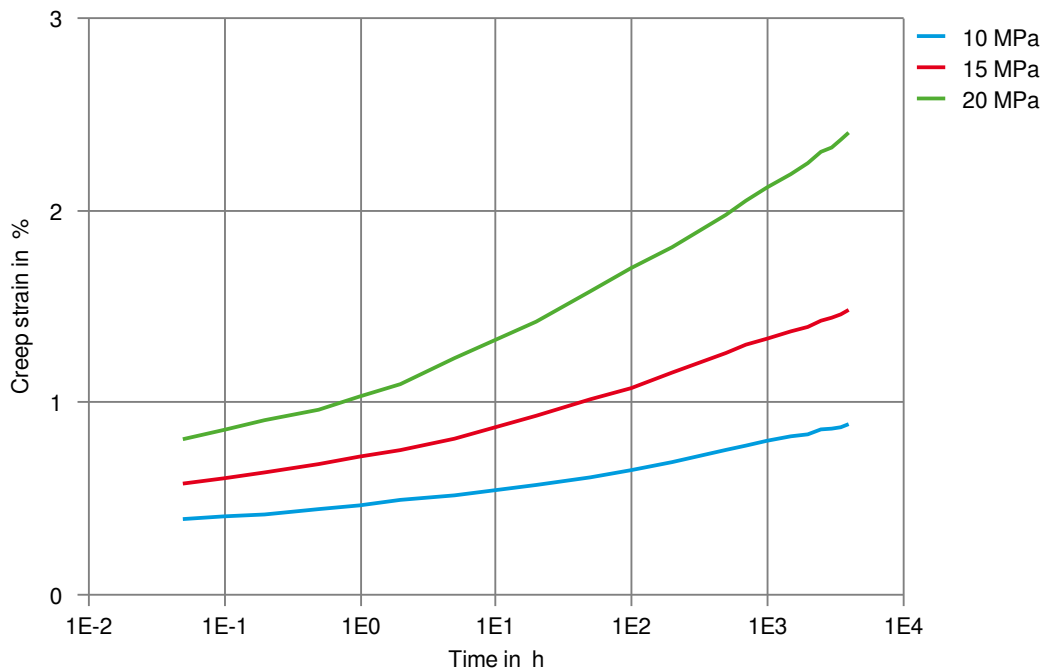
HOSTAFORM® SlideX® C0304 XAP®2
HOSTAFORM®

Creep modulus-time 23°C



HOSTAFORM® SlideX® C0304 XAP®2
HOSTAFORM®

Creep strain-time 23 °C



Printed: 2025-05-30

Page: 8 of 8

Revised: 2024-12-03 Source: Celanese Materials Database

NOTICE TO USERS: Values shown are based on testing of laboratory test specimens and represent data that fall within the standard range of properties for natural material. These values alone do not represent a sufficient basis for any part design and are not intended for use in establishing maximum, minimum, or ranges of values for specification purposes. Colourants or other additives may cause significant variations in data values. Properties of moulded parts can be influenced by a wide variety of factors including, but not limited to, material selection, additives, part design, processing conditions and environmental exposure. Other than those products expressly identified as medical grade (including by MT® product designation or otherwise), Celanese's products are not intended for use in medical or dental implants. Regardless of any such product designation, any determination of the suitability of a particular material and part design for any use contemplated by the users and the manner of such use is the sole responsibility of the users, who must assure themselves that the material as subsequently processed meets the needs of their particular product or use. To the best of our knowledge, the information contained in this publication is accurate; however, we do not assume any liability whatsoever for the accuracy and completeness of such information. The information contained in this publication should not be construed as a promise or guarantee of specific properties of our products. It is the sole responsibility of the users to investigate whether any existing patents are infringed by the use of the materials mentioned in this publication. Moreover, there is a need to reduce human exposure to many materials to the lowest practical limits in view of possible adverse effects. To the extent that any hazards may have been mentioned in this publication, we neither suggest nor guarantee that such hazards are the only ones that exist. We recommend that persons intending to rely on any recommendation or to use any equipment, processing technique or material mentioned in this publication should satisfy themselves that they can meet all applicable safety and health standards. We strongly recommend that users seek and adhere to the manufacturer's current instructions for handling each material they use, and entrust the handling of such material to adequately trained personnel only. Please call the telephone numbers listed for additional technical information. Call Customer Services for the appropriate Materials Safety Data Sheets (MSDS) before attempting to process our products.

© 2025 Celanese or its affiliates. All rights reserved. Celanese®, registered C-ball design and all other trademarks identified herein with ®, TM, SM, unless otherwise noted, are trademarks of Celanese or its affiliates. Fortron is a registered trademark of Fortron Industries LLC.