



Automotive/Consumer Goods:✔Housings✔Protective Covers✔Industrial Components

# Tough 40<sup>ABS-like</sup>

## High-Performance Tough Material - Rigid Yet Flexible

Its **60%** elongation at break and **30 J/m** notched Izod impact strength demonstrate its unparalleled toughness and impact resistance, making it ideal for various consumer electronics end-use parts.



High  
Toughness



Impact  
Resistance



Fracture  
Resistance

Specs

1L/bottle

5L/bottle

20L/bottle

|                                                 | Test Method                         | Typical Value       |
|-------------------------------------------------|-------------------------------------|---------------------|
| <b>✓ Tensile Properties</b>                     |                                     |                     |
| Tensile Modulus                                 | ASTM D638 Type V 10 mm/min          | 1500 MPa            |
| Yield Strength                                  | ASTM D638 Type V 10 mm/min          | 40 MPa              |
| Yield Strain                                    | ASTM D638 Type V 10 mm/min          | 5%                  |
| Tensile Strength                                | ASTM D638 Type V 10 mm/min          | 40 MPa              |
| Elongation at Break                             | ASTM D638 Type V 10 mm/min          | 60%                 |
| <b>✓ Flexural Properties</b>                    |                                     |                     |
| Flexural Strength                               | ASTM D790-B                         | 50 MPa              |
| Flexural Modulus (Chord, 0.5-1%)                | ASTM D790-B                         | 1400 MPa            |
| <b>✓ Impact Properties</b>                      |                                     |                     |
| Unnotched Izod Impact, 23 °C                    | ASTM D4812                          | 300 J/m             |
| Notched Izod Impact, 23 °C                      | ASTM D256                           | 30 J/m              |
| <b>✓ Thermal Properties</b>                     |                                     |                     |
| Heat Deflection Temperature at 0.455 MPa/66 psi | ASTM D648                           | 60 °C               |
| Heat Deflection Temperature at 1.82 MPa/264 psi | ASTM D648                           | 45 °C               |
| <b>✓ General Properties</b>                     |                                     |                     |
| Hardness                                        | ASTM D2240                          | 83(instant),Shore D |
| Taber Abrasion                                  | ASTM D4060 CS-17, 1 kg, 100% vacuum | 80 mg / 1000 cycles |
| <b>✓ Liquid Properties</b>                      |                                     |                     |
| Liquid Density                                  | —                                   | 1.02 g/mL           |
| Viscosity (25°C)                                | —                                   | 2700 cP             |

