



# Flexalloy® 9300-60

Teknor Apex Company - Polyvinyl Chloride Elastomer

## General Information

### General

|                   |   |  |                     |
|-------------------|---|--|---------------------|
| Material Status   | • Commercial: Active                        |  |                     |
| Availability      | • Africa & Middle East<br>• Asia Pacific    | • Europe<br>• Latin America                            | • North America     |
| Features          | • Good Thermal Stability<br>• Oil Resistant | • Recyclable Material<br>• Ultra High Molecular Weight | • Weather Resistant |
| Uses              | • Coating Applications<br>• Hose            | • Seals<br>• Tool/Tote Box                             | • Tubing            |
| Forms             | • Pellets                                   |  |                     |
| Processing Method | • Extrusion                                 | • Injection Molding                                    |                     |

## ASTM & ISO Properties <sup>1</sup>

| Physical                             | Nominal Value  | Unit  | Test Method |
|--------------------------------------|----------------|-------|-------------|
| Specific Gravity                     | 1.22           |       | ASTM D792   |
| Molding Shrinkage - Flow             | 0.010 to 0.025 | in/in | ASTM D955   |
| Mechanical                           | Nominal Value  | Unit  | Test Method |
| Tensile Strength (100% Strain)       | 680            | psi   | ASTM D638   |
| Tensile Strength (Break)             | 2150           | psi   | ASTM D638   |
| Tensile Elongation (Break)           | 340            | %     | ASTM D638   |
| Elastomers                           | Nominal Value  | Unit  | Test Method |
| Compression Set (73°F)               | 32             | %     | ASTM D395   |
| Hardness                             | Nominal Value  | Unit  | Test Method |
| Durometer Hardness (Shore A, 15 sec) | 60             |       | ASTM D2240  |
| Thermal                              | Nominal Value  | Unit  | Test Method |
| Brittleness Temperature              | -45.4          | °F    | ASTM D746   |

## Processing Information

| Injection               | Nominal Value        | Unit |
|-------------------------|----------------------|------|
| Suggested Max Regrind   | 20                   | %    |
| Rear Temperature        | 350 to 380           | °F   |
| Middle Temperature      | 350 to 380           | °F   |
| Front Temperature       | 350 to 380           | °F   |
| Mold Temperature        | 75 to 125            | °F   |
| Back Pressure           | 50.0 to 150          | psi  |
| Screw L/D Ratio         | 20.0:1.0 to 24.0:1.0 |      |
| Screw Compression Ratio | 2.0:1.0 to 3.0:1.0   |      |

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.