



# CHEMPLAX LLC

A KMI Group Company

Technical Data Sheet

## ElastoPrene 73A

### Thermoplastic Vulcanizate (TPV)

#### Product Description

ElastoPrene 73A is a post-consumer recyclable thermoplastic vulcanizate containing an olefin-based rubber and polyolefin resins. It is designed for applications requiring long term sealing performance even at elevated temperatures. Soft-touch feel for grips and handles used in automotive and consumer goods. It can be processed using conventional thermoplastic processing equipment that can be extruded or molded into flexible parts. It is an excellent choice for applications requiring flexibility in the following markets: automotive, appliance, business machines, and construction.

#### Features:

- Over mold and coextrusion adhesion to Polypropylene
- Low Gloss
- Rubberlike elasticity, good compression set properties
- Ease of processing
- Recyclability

#### Revision

Revision Date: 4/23/2025

Properties	Method	Value
<b>Density</b>	ASTM D792	0.967 g/cm <sup>3</sup>
<b>Melt Flow Index</b> (200°C/5.0 kg)	ASTM D1238	2.0 g/cm <sup>3</sup>
<b>Mechanical Properties</b>		
Tensile Strength (Break)	ASTM D412	8.0 MPa (1159 psi)
Tensile Elongation (Break)	ASTM D412	430%
100% Modulus	ASTM D412	3.46 MPa (502 psi)
Tear Strength	ASTM D624	155 lbs/in (26.8 kN/m)
<b>Hardness</b> (Shore A)	ASTM D2240	
Injection Molded, 15 sec		75
Extruded, 15 sec		72
<b>Compression Set</b>	ASTM D395B	
22h / 70°C		37%
70h / 125°C		46%
<b>Brittleness Temperature</b>	Internal Process	-60°C

## Notes

### General Processing Conditions

#### ⇒ ***Molding and Extrusion Conditions***

- Barrel Temperatures:
  - Rear (160°-180°C)
  - Middle (170°-190°C)
  - Front (180°-200°C)
  - Die/Nozzle (190°C)
- Melt Temperature (170°-200°C)
- Mold Temperature (10°-50°C)
- Screw Speed (50-200 RPM)

#### ⇒ ***Environmental Resistance***

- Ozone – Excellent
- UV – Good to Excellent
- Water – Excellent
- Alcohol – Excellent
- Oils & Solvents – Very Good (Depending on temp. and oil type)
- Detergent – Good
- Weak Acids & Bases – Good

**For additional inquiries, please contact: [csr.supplychain@kmigroup.com](mailto:csr.supplychain@kmigroup.com)**

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