



# CHEMPLAX LLC

A KMI Group Company

Technical Data Sheet

## EcoPrene 51% PCR 90A Black TPV

Thermoplastic Vulcanizate (TPV)

### Product Description

EcoPrene 51% PCR 90A Black TPV is a post-consumer recyclable thermoplastic elastomer containing fully vulcanized EPDM rubber. It is designed for applications requiring long term sealing performance even at elevated temperatures. It can be processed using conventional thermoplastic processing equipment. Suitable for injection molding, blow molding, profile and sheet extrusion applications.

### Revision

Revision Date: 2/21/24

Properties	Method	Value
Melt Flow Rate @ 230°C	ASTM D1238	.54 g/10 min
Density	ASTM D792	0.940 g/cm <sup>3</sup>
Durometer Shore A	ASTM D2240	90
Tensile Properties	ASTM D412	
Tensile Strength 100%		10.40 MPa
Tensile Strength		17.2 MPa
Elongation		650%

### Additional Notes

**Processing Parameters:** EcoPrene material can be processed using conventional thermoplastic processing equipment. Extrusion processing recommendation L/D ratio of 24 or more, and a metering type screw with compression ratio of 3-4. Die swelling will be limited due to the higher melt viscosity.

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

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