

Technical Data Sheet

Revision Date: Apr. 1. 2024

NO. WHPU_0001

Name: 9147

Version: 3.0

WANSUPER[®] 9147 POLYOLEFIN ELASTOMER (POE) DESCRIPTION

- WANSUPER[®] 9147 is an ethylene-octene copolymer produced by solution polymerization using metallocene catalyst.
- WANSUPER[®] 9147 provides high transmittance, good weather resistance properties and excellent electrical properties.
- Typical application is photovoltaic module encapsulant.

PROPERTIES

	Test method	Unit	Typical values
Physical			
Melt index (2.16kg/190°C)	ASTM D1238	g/10min	14
Density	ASTM D792	g/cm ³	0.873
Mechanical¹			
Tensile modulus (100% secant, 500mm/min)	ASTM D638	MPa	2.1
Tensile strength at break(500mm/min)	ASTM D638	MPa	4
Elongation at break(500mm/min)	ASTM D638	%	1000
Flexural modulus (1% secant)	ASTM D790	MPa	10.6
Tear strength (Type C)	ASTM D624	KN/m	37
Hardness (Shore A, 1 sec)	ASTM D2240	—	70
Hardness (Shore D, 1 sec)	ASTM D2240	—	18
Thermal			
Melting temperature	Wanhua method	°C	65
DSC Glass transition temperature	Wanhua method	°C	-53

Electrical

Volume resistivity	IEC60093	$\Omega \cdot \text{cm}$	>1.0E+15
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¹Measurements are based on specimens cut from compression molded plates.

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