



Product Technical Specifications

Revision Date: 2025-8-21

TDS Number: DJD_PE 0001

Brand Number: B5350

Version: V 1.0

DFLEX[®] B5350 Polyolefin elastomer (POE)

Overview Characteristics

The ethylene-butene copolymer is a high-performance copolymer with excellent impact properties, making it suitable for applications requiring higher-grade thermoplastic polyolefin (TPO) performance. Composition: 77.2% ethylene and 22.8% butene.

- low density
- Excellent liquidity
- Good impact resistance

Apply

- Photovoltaic module packaging film
- auto parts
- Household appliance casing
- Modifications to the midsole of athletic shoes, etc

Product Performance Parameters

Project	Testing standard	Unit	Representative value
Physical property			
Melt index (190°C/2.16 kg)	ASTM D1238	g/10min	14.00
Density	ASTM D792	g/cm ³	0.873
Mass resistivity	GB/T 31838.2	Ω·cm	≥ 10*10 ¹⁵
Transmittance (wavelength range: 290 nm–380 nm)	GB/T 2410	%	≥ 86.0
Transmittance (wavelength range: 380 nm–1100 nm)	GB/T 2410	%	≥ 91.0
Mechanical property			
Tensile fracture strength	ASTM D638	MPa	≥ 4.32
Pull extension Break crack Strain	ASTM D638	%	≥ 900
Hardness (Shao's A)	ASTM D2240	—	72
Thermal Properties			
Glass-transition temperature	GB/T19466.2	°C	≤ -49

Version Information

First Release Date: 2025-08-21

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SUPPLY FORM: Supplied in the form of cylindrical pellets. It should be kept in its original packaging and stored in a cool, dry place. Avoid direct exposure to sunlight.

PACKAGING METHOD: 25kg/bag

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