



Dexflex 1011E

Compounded Polyolefin

Product Description

DEXFLEX 1011E is a thermoplastic olefinic elastomer (TPO) designed for use as an automotive airbag cover with requirements to deploy at temperatures between -40°C and +100°C. This material is being designed to provide low-temperature toughness in combination with higher stiffness. DEXFLEX 1011E material will be provided mold-in-color or black. DEXFLEX 1011E material is engineered for passenger-side-, knee-or Thorax-airbag applications.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, Asia-Pacific, Africa-Middle East
Processing Methods	Injection Molding
Features	Ductile, Low Temperature Flexibility, High Impact Resistance , Low Temperature Impact Resistance
Typical Customer Applications	Automotive Parts, Impact modification, Interior Applications

Typical Properties	Method	Value Unit
Physical		
Density -Specific Gravity	ASTM D 792	890 kg/m ³
Melt Flow Rate	ASTM D 1238	5 g/10 min
<i>Note: Cond. L</i>		
Mechanical		
Flexural Modulus	ASTM D 790	570 MPa
<i>Note: I.B., TAN, 0,5 in/min</i>		
Tensile Strength @ Yield	ASTM D 638	16 MPa
<i>Note: IV, 5 in/min</i>		
Tensile Elongation @ Yield	ASTM D 638	18 %
Impact		
Notched Izod Impact	ASTM D 256	
(+23 °C)		No Break kJ/m ²
(-40 °C)		No Break kJ/m ²
Hardness		
Shore hardness D	ISO 868/ASTM D 2240	50
Additional Information		
Mold shrinkage	ISO 294-4	0,6 - 0,9 %
<i>Note: measured on test specimen</i>		

Notes

Typical properties; not to be construed as specifications.

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- ┆ Basell Sales & Marketing Company B.V.
- ┆ Basell Asia Pacific Limited
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U.S. FDA, Health Canada, and European Union regulations include another country's equivalent regulatory classification.

Users should review the applicable Material Safety Data Sheet before handling the product.

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