DEXFLEX® 1011E

Thermoplastic Polyolefin Elastomer

LyondellBasell Industries

Message:

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. DEXFEX 1011E material is engineered for passenger-side-, knee-or Thorax-airbag applications.

General Information			
Features	Ductile		
	High Impact Resistance		
	High Stiffness		
	Low Temperature Flexibility		
	Low Temperature Impact Resistance		
	Low Temperature Toughness		
Uses	Automotive Applications		
	Automotive Interior Parts		
	Plastics Modification		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.890	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Molding Shrinkage	0.60 to 0.90	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	50		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength [1] (Yield)	16.0	MPa	ASTM D638
Tensile Elongation (Yield)	18	%	ASTM D638
Flexural Modulus - Tangent [2]	570	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	No Break		
23°C	No Break		
NOTE			
1.	Type IV, 130 mm/min		
2.	Method I (3 point load), 13 mm/min		

Recommended distributors for this material

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