

DEXFLEX® 756-68E

Thermoplastic Polyolefin Elastomer

LyondellBasell Advanced Polyolefins USA, Inc.

Product Description

DEXFLEX 756-68E 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. DEXFLEX 1012E material is engineered for passenger-side and side airbag covers.

General

Features	• High Impact Resistance	• Low Temperature Flexibility	• Low Temperature Impact Resistance
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)	7.0	g/10 min	ASTM D1238
Molding Shrinkage	0.50 to 0.80	%	ISO 294-4

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	14.0	MPa	ASTM D638
Tensile Elongation (Break)	> 300	%	ASTM D638
Flexural Modulus - Tangent ^{3, 4}	380	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	No Break		
23°C	No Break		

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	45		ASTM D2240 ISO 868

Notes

¹ Typical properties: these are not to be construed as specifications.

² Type IV, 130 mm/min

³ 13 mm/min

⁴ I.B.