

DEXFLEX® 1010E

Thermoplastic Polyolefin Elastomer

LyondellBasell Industries

Message:

DEXFLEX 1010E is a thermoplastic olefinic elastomer (TPO) developed for automotive airbag covers. This material is being designed to provide low-temperature impact, superior dimensional stability and improved processing characteristics. DEXFLEX 1010E material will be provided precolored or natural. DEXFLEX 1010E material is engineered for passenger-side airbag covers. Its superior dimensional stability makes it desirable for top-mounted applications, either as a substrate or a cover material

General Information			
Additive	Impact Modifier		
Features	Ductile		
	Good Dimensional Stability		
	Good Processability		
	High Impact Resistance		
	Impact Modified		
	Low Temperature Flexibility		
	Low Temperature Impact Resistance		
	Paintable		
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 ¹	0.50 to 0.90	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	55		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	18.0	MPa	ASTM D638
Tensile Elongation (Yield)	15	%	ASTM D638
Flexural Modulus - Tangent ³	600	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	No Break		
23°C	No Break		
NOTE			

1.	Measured on internal test specimen
2.	Type IV, 130 mm/min
3.	Method I (3 point load), 13 mm/min

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