

DEXFLEX® 777

Thermoplastic Polyolefin Elastomer

LyondellBasell Advanced Polyolefins USA, Inc.

Product Description

DEXFLEX® 777 is a thermoplastic olefinic elastomer (TPO) designed for automotive exterior applications that require a combination of stiffness, good low-temperature impact resistance, and excellent processability.

Applications:

Claddings, rocker panels, body side moldings, and other large components that must exhibit durable paintability or excellent weatherability

General

Features	• Good Processability • Good Stiffness	• Good Weather Resistance • Low Temperature Impact Resistance	• Paintable
Uses	• Automotive Exterior Parts		

Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)	12	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
-- ²	0.90 to 1.2	%	
-- ³	0.70 to 1.0	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ⁴ (Yield, 4.00 mm)	20.0	MPa	ISO 527-2/50
Flexural Modulus ^{5, 6} (4.00 mm)	1800	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Instrumented Dart Impact ⁷ (23°C)	20.5	J	ASTM D3763

Thermal	Nominal Value	Unit	Test Method
CLTE - Flow (-30 to 80°C)	0.000060	cm/cm/°C	ASTM E228

Notes

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

² After bake

³ As molded

⁴ 150x10x4 mm

⁵ 2.0 mm/min

⁶ 80x10x4 mm specimen

⁷ 2.20 m/sec