

# CirculenRecover EP445PR

## LyondellBasell Industries - Polypropylene Impact Copolymer

### General Information

#### Product Description

CirculenRecover EP445PR is a polypropylene-based impact copolymer containing 30% post-consumer recycled (PCR) resin. CirculenRecover EP445PR is typically used in injection molding applications and offers excellent cold temperature impact resistance and stiffness/impact balance.

#### General

Additive	• Antistatic	• Nucleating Agent	
Recycled Content	• Post-Consumer (PCR), 30%		
Features	• Antistatic • Good Mold Release	• Low Temperature Impact Resistance • Nucleated	
Uses	• Caps • Closures	• Consumer Applications • Containers	• Crates • Rigid Packaging
Processing Method	• Injection Molding		

### Properties <sup>1</sup>

Physical		Nominal Value	Unit	Test Method
Density / Specific Gravity		0.902		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)		17	g/10 min	ASTM D1238
Mechanical		Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup> (Yield)	• •	3400 3340	psi	ASTM D638
Tensile Elongation (Yield)		6.5	%	ASTM D638
Flexural Modulus - 1% Secant				ASTM D790A
-- <sup>3</sup>		160000	psi	
-- <sup>4</sup>		160000	psi	
Impact		Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	• •	2.1 2.1	ft-lb/in	ASTM D256A
Thermal		Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	• •	189 189	°F	ASTM D648

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 2.0 in/min

<sup>3</sup> 0.051 in/min

<sup>4</sup> 0.050 in/min