

# CirculenRecover LR7320R

## LyondellBasell Industries - High Density Polyethylene

### General Information

#### Product Description

The CirculenRecover LR7320R is a pelletized high density polyethylene containing 75% post consumer recycled resin (PCR resin) selected by customers for extrusion blow molding applications that require high PCR content with an excellent balance of stiffness and environmental stress crack resistance. Typical applications include containers for bleach detergent, household chemicals, and personal care products.

#### General

Recycled Content	• Post-Consumer (PCR), 75%		
Features	• Excellent Processability		
Uses	• Bottles • Consumer Applications	• Industrial Applications • Rigid Packaging	• Sheet
Processing Method	• Extrusion Blow Molding	• Profile Extrusion	• Sheet Extrusion

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

Physical	Nominal Value	Unit	Test Method
Density (23°F)	0.959	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.25	g/10 min	
190°C/21.6 kg	33	g/10 min	
Environmental Stress-Cracking Resistance (ESCR)			ASTM D1693B
100% Igepal, F50	55.0	hr	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	4000	psi	ASTM D638
Tensile Elongation (Break)	> 500	%	ASTM D638
Flexural Modulus - 1% Secant	225000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength	128	ft-lb/in <sup>2</sup>	ASTM D1822
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	67		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	167	°F	ASTM D648
Brittleness Temperature <sup>2</sup>	< -105	°F	ASTM D746
Vicat Softening Temperature	259	°F	ASTM D1525

#### Notes

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

<sup>2</sup> F50