

CirculenRecover LM6007R

LyondellBasell Industries - High Density Polyethylene

General Information

Product Description

CirculenRecover LM6007R is a single pellet, high density polyethylene resin containing 25% post-consumer recycled resin (PCR resin). Typical blow mold applications include water, milk and juice bottles.

General

Recycled Content	• Post-Consumer (PCR), 25%		
Features	• High Stiffness	• Low Taste Transfer	
Uses	• Bottles	• Rigid Packaging	
	• Consumer Applications	• Sheet	
Processing Method	• Extrusion Blow Molding	• Profile Extrusion	• Sheet Extrusion

Properties¹

Physical	Nominal Value	Unit	Test Method
Density (23°F)	> 0.960	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.70	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	4600	psi	ASTM D638
Tensile Elongation (Break)	> 400	%	ASTM D638
Flexural Modulus - 1% Secant	225000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength	120	ft·lb/in ²	ASTM D1822
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	69		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	180	°F	ASTM D648
Brittleness Temperature ²	< -105	°F	ASTM D746
Vicat Softening Temperature	264	°F	ASTM D1525

Notes

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

² F50