

# SEETEC PP R3450

Polypropylene Random Copolymer  
LG Chem Ltd.

Message:

Seetec R3450 is a polypropylene-ethylene random copolymer designed for the production of cast films. It has a good clarity due to the optimum content of ethylene and offers optimum balance between optical properties and physical strength. It is suitable for the skin layer of co-extruded cast film in food packaging or semi retort pouch being required high slip and medium heat seal temperature. SEETEC R3450 meets the FDA requirement in the code of Federal Regulations in 21 CFR 177.1520 and EU Directive 10/2011 for food contact.

General Information			
Additive	High Antiblock		
	High Slip		
Features	Food Contact Acceptable		
	General Purpose		
	Good Strength		
	Heat Sealable		
	High Antiblocking		
	High Clarity		
	High Slip		
	Opticals		
Uses	Food Packaging		
	General Purpose		
Agency Ratings	EU 10/2011		
	FDA 21 CFR 177.1520		
Processing Method	Cast Film		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	82		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	25.0	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	> 500	%	ASTM D638
Flexural Modulus	900	MPa	ASTM D790
Coefficient of Friction (Static, Cast Film)	< 0.20		ASTM D1894
Films	Nominal Value	Unit	Test Method

Film Thickness - Tested	30	μm	
Tensile Strength			ASTM D882
MD : Break, 30 μm,Cast Film	43.1	MPa	
TD : Break, 30 μm,Cast Film	33.3	MPa	
Tensile Elongation			ASTM D882
MD : Break, 30 μm,Cast Film	> 500	%	
TD : Break, 30 μm,Cast Film	> 500	%	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	49	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	80.0	°C	ASTM D648
Vicat Softening Temperature	134	°C	ASTM D1525 <sup>3</sup>
Optical	Nominal Value	Unit	Test Method
Gloss (30.0 μm, Cast Film)	132		ASTM D2457
Haze (30.0 μm, Cast Film)	1.5	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Heat Seal Temperature <sup>4</sup>	130	°C	Internal Method
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	Loading 1 (10 N)		
4.	>1 kgf		

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