

Clyrell EC310K

Polypropylene Copolymer

PolyMirae

Message:

Clyrell EC310K is a medium flow heterophasic copolymer selected by customers for use in film applications. Films produced with Clyrell EC310K shows very good gel level and good heat seal properties. Clyrell EC310K films are also characterized by an excellent balance of toughness, low temperature impact, mechanical properties, easy processing and low stress whitening. Clyrell EC310K is typically used by customers for lamination, adhesive tapes, labeling films, thermoformed containers, stationery and protective films and food packaging. Clyrell EC310K contains no slip or antiblocking agents. Clyrell EC310K is suitable for food contact.

General Information			
Features	Copolymer		
	Food Contact Acceptable		
	Good Impact Resistance		
	Good Processability		
	Good Toughness		
	Heat Sealable		
	Low Gel		
	Stress Whitening Resistant		
Uses	Film		
	Food Packaging		
	Labels		
	Laminates		
	Stationary Supplies		
	Tape		
	Thermoformed Containers		
RoHS Compliance	Contact Manufacturer		
Appearance	Clear/Transparent		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ISO 1183, ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.5	g/10 min	ASTM D1238, ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield	27.5	MPa	ASTM D638
Yield, 23°C	27.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield	10	%	ASTM D638
Yield, 23°C	12	%	ISO 527-2/50
Flexural Modulus			

--	1120	MPa	ASTM D790
--	1150	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	3.0	kJ/m ²	
23°C	20	kJ/m ²	
Notched Izod Impact			ASTM D256
-20°C	20	J/m	
23°C	110	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	96.0	°C	ASTM D648
0.45 MPa, Unannealed	83.0	°C	ISO 75-2/B
Vicat Softening Temperature	150	°C	ISO 306/A50

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