

# Arak PP EP2X83CE

Polypropylene Random Copolymer

Shazand (Arak) Petrochemical Corporation

Message:

EP2X83CE is a clear polypropylene random copolymer particularly suited for blow moulding technology & single or multi-layer sheet extrusion .The product imparts excellent clarity & gloss and these characteristics may be further enhanced through orientation process (i.e. injection stretch blow moulding).Due to these properties EP2X83CE is an interesting alternative to P.V.C. for use in blow moulding ,sheet extrusion & thermoforming applications.

Blow moulding applications for EP2X83CE include bottle for detergents & toiletries, flat mineral water, fresh fruit juice & concentrates, jars for condiments & preserves. Extruded sheets made of EP2X83CE are widely used in stationary folders & thermoforming articles such as trays for fresh pasta, sweets or biscuits, fruit & vegetable containers & pots for dairy products.

\* EP2X83CE is suitable for food contact.

General Information	
Features	Food Contact Acceptable
	High Clarity
	High Gloss
	Random Copolymer
Uses	Blow Molding Applications
	Bottles
	Food Containers
	Fruit Juice Bottles
	Sheet
	Squeeze Bottles
	Stationary Supplies
	Support Trays
Appearance	Clear/Transparent
Processing Method	Blow Molding
	Injection Blow Molding
	Sheet Extrusion
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.8	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	85		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	28.0	MPa	ASTM D638
Tensile Elongation (Yield)	13	%	ASTM D638
Flexural Modulus	1050	MPa	ASTM D790

Aging	Nominal Value	Unit	Test Method
Oven Aging (150°C)	15.0	day	ASTM D3012
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	82.0	°C	ASTM D648
Vicat Softening Temperature	132	°C	ASTM D1525 <sup>1</sup>
Optical	Nominal Value	Unit	Test Method
Gardner Gloss	78		ASTM D523
Haze	15	%	ASTM D1003
NOTE			
1.	Loading 1 (10 N)		

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