

Arak PP EP2X83CI

Polypropylene Random Copolymer

Shazand (Arak) Petrochemical Corporation

Message:

EP2X83CI is a polypropylene random copolymer with excellent flow properties .The product features very high transparency & gloss. EP2X83CI is mainly designed for transparent house wares & quality packaging applications. EP2X83CI is an outstanding grade for injection moulded containers & thin-walled packaging where clarity is of utmost importance.

Typical injection moulding applications include food storage containers, household articles, food packaging, cosmetics & pharmaceutical products, lids, caps & closures .In many of these applications, EP2X83CI can replace PS since it can match optical properties whilst adding low weight, low odour transfer, chemical resistance & impact strength. Another major application of EP2X83CI is the co-extrusion with other polypropylene resins to produce multilayer sheet for thermoforming trays for fresh pasta & bakery products.

* EP2X83CI is suitable for food contact.

General Information			
Features	Food Contact Acceptable		
	Good Chemical Resistance		
	Good Flow		
	Good Impact Resistance		
	High Clarity		
	High Gloss		
	Low Odor Transfer		
	Opticals		
	Random Copolymer		
Uses	Caps		
	Closures		
	Cosmetics		
	Food Containers		
	Food Packaging		
	Household Goods		
	Lids		
	Pacifiers		
	Pharmaceuticals		
	Sheet		
	Support Trays		
	Thin-walled Packaging		
Appearance	Clear/Transparent		
Processing Method	Coextrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method

Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	11	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	94		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	28.0	MPa	ASTM D638
Tensile Elongation (Yield)	12	%	ASTM D638
Flexural Modulus	1050	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	85	J/m	ASTM D256
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)	83.0	°C	ASTM D648
Vicat Softening Temperature	128	°C	ASTM D1525 ¹
Optical	Nominal Value	Unit	Test Method
Gardner Gloss	73		ASTM D523
Haze	17	%	ASTM D1003
NOTE			
1.	Loading 1 (10 N)		

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