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New generation clear PP Homopolymer HA31XTF

developed by

Polychim Industrie 

for sheet extrusion
and thermoforming.

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Polypropylene homopolymer HA31XTF is a nucleated homopolymer with excellent clarity and good antistatic properties. HA31XTF is using latest generation nucleating agent and has been developed in close collaboration with Milliken.

TYPICAL PROPERTIES				
PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE	
Melt Flow Rate (230°C/2.16Kg)	ASTM D1238	g/10 min	3.5 ± 0.5	
Density	ASTM 1505	g/cm ³	0.9	
Colour	DIN 6167	Yi	0 max	
Tensile Yield Strength (50mm/min)	ASTM D638	MPa	36	
Yield Elongation (50mm/min)	ASTM D638	%	9.5	
Flexural Modulus at 1.3mm/min (1% sec)	ASTM D790	MPa	1600 max	
Notched Izod Impact Strength at 23°C	ASTM D256-A	J/m	55	
Heat Deflection Temperature	ASTM D648	455 kPa	°C	111
		1820 kPa		58
Vicat Softening Point	ASTM D1525-A	9.81 N	°C	154
		49.05 N		93

Main Benefits:

- Improved clarity over traditional nucleated homopolymers. (Haze value: 24 measured on 1 mm plaque)
- Excellent stiffness-impact balance.
- Higher output during thermoforming. (10% cycle time improvement)
- Isotropic and balanced shrinkage resulting in less part warpage.
- Good opticals and fresh part appearance due to reduced yellowing.
- Improved stackability of thermoformed items.
- High crystallization temperature allowing cost effective production.

Applications:

- Disposable drinking cups.
- Freshly prepared salad cups & lids.
- Meat Trays
- Vending cups
- Salad bowls
- General food packaging

CURRENT PRODUCT LISTING	MFI:	CORRESPONDING UPDATED PRODUCT
HA10XT	3.3	Extrusion, Stretched Tape, Carpet Backing, Woven Bags
HA31XTF	3.5	Thermoforming application
HB12XF	12	Fibre applications
HC10XC	25	Compounding application, Fine Fibre (CF) application
HC12XB	25	Fine Fibre Spinning (BCF)
HG10XC	16	compounding application
HH10XT	2	Tape, strapping applications
HJ40XI	55	Injection Moulding application
HL10XF	3.8	Fibre Application, High Tenacity
HV22XF	5.5	Fibre applications, High Tenacity
HS15XC	75	High MFR, TWIM applications

Applications where product appearance, opticals and reduced yellowing are an added value.