

## LyondellBasell Pro-fax SD242 Polypropylene Impact Copolymer

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

**Key Features:** short cycle times for high productivity, good cold impact resistance, good stiffness and impact balance, high flow ease of mold filling and minimum warpage, low odor and low taste transfer, FDA acceptable

**Applications:** food and medical containers, closures, lids, overcaps, housewares, consumer products

**Meets FDA requirements in 21 CFR 177.1520 for all food contact, excluding cooking applications.**

**Description:** Pro-fax SC242 nucleated, easy molding, high melt flow, medium impact polypropylene copolymer resin is designed for thin-wall applications requiring fat cycling and an excellent stiffness/impact balance. This resin is available in pellet form. This resin meets FDA requirements in the Code of Federal Regulations in 21 CFR 177.1520 for all food contact, including cooking applications. All ingredients meet the chemical registration requirements of TSCA and DSL. It has a UL yellow card RTI, which applies to all natural colors.

Information provided by Montell Polyolefins. LyondellBasell is the successor company to Montell.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LyondellBasell-Pro-fax-SD242-Polypropylene-Impact-Copolymer.php](http://www.lookpolymers.com/polymer_LyondellBasell-Pro-fax-SD242-Polypropylene-Impact-Copolymer.php)

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in <sup>3</sup>	ASTM D792B
Melt Flow	35 g/10 min @Load 2.16 kg, Temperature 230 °C	35 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	28.0 MPa	4060 psi	ASTM D638
Elongation at Yield	5.0 %	5.0 %	ASTM D638
Flexural Modulus	1.40 GPa	203 ksi	1% secant at 0.05 in/min; ASTM D790A
Izod Impact, Notched	0.700 J/cm	1.31 ft-lb/in	ASTM D256A
Impact Test	20.0 J @Temperature 5.00 °C	14.8 ft-lb @Temperature 41.0 °F	Montell drop weight impact strength

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	70.0 °C	158 °F	ASTM D648
UL RTI, Mechanical with Impact	65.0 °C	149 °F	Minimum thickness of 0.059 inches.
Flammability, UL94	HB	HB	Minimum thickness of 0.059 inches.

## Contact Songhan Plastic Technology Co.,Ltd.

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