

STYRENICS

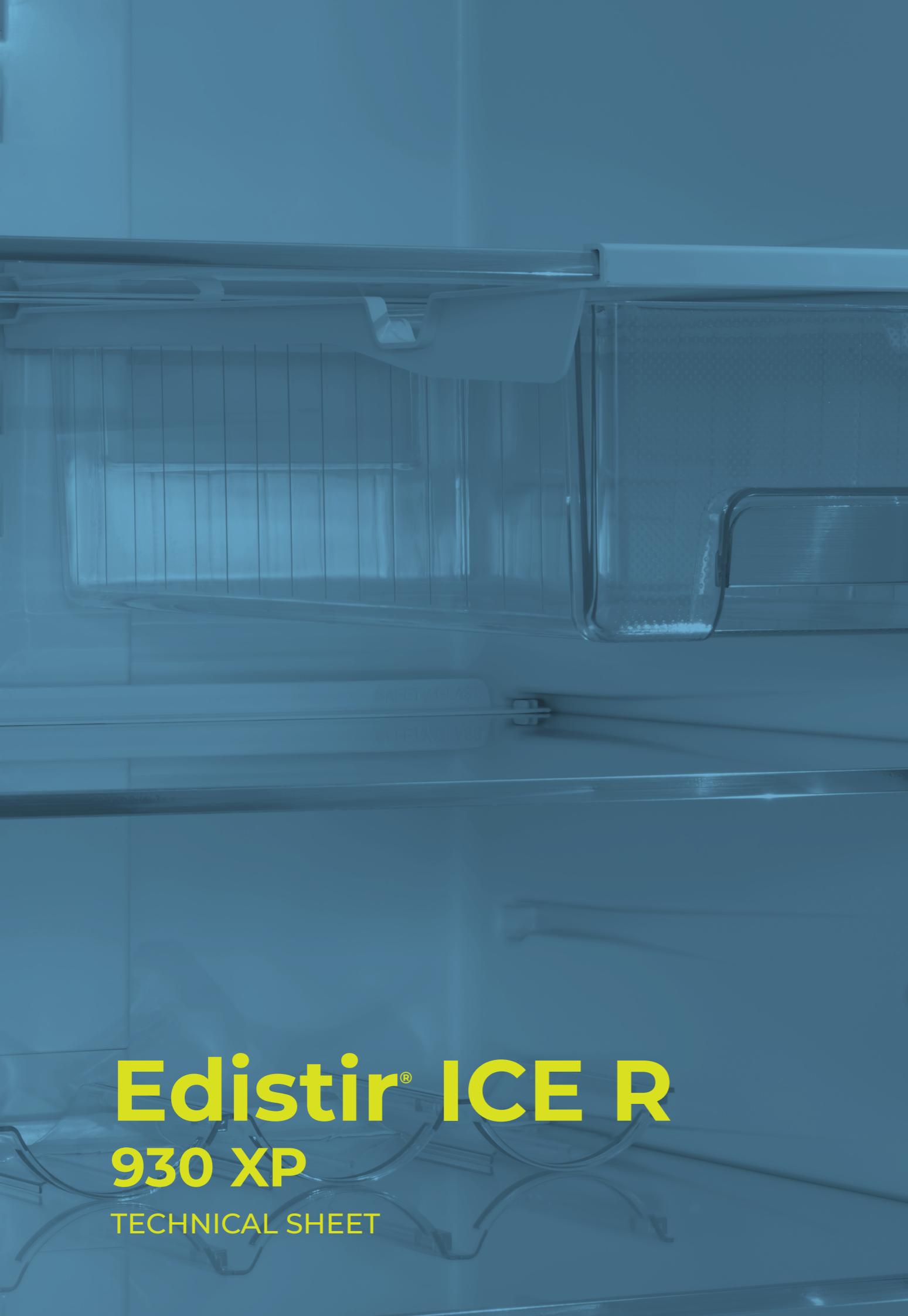
Edistir® ICE

TECHNICAL SHEETS

R 930 XP



versalis



Edistir® ICE R 930 XP

TECHNICAL SHEET

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Versalis produce **Edistir®** HIPS utilizzando l'innovativa tecnologia di polimerizzazione in massa continua sviluppata dal suo R&D sfruttando le conoscenze acquisite nella sintesi dei materiali plastici stirenici (ABS, SAN e GPPS).

Versalis produces **Edistir®** HIPS using the innovative continuous mass polymerization technology developed by its R&D, exploiting the knowledge acquired in the synthesis of styrene plastic materials (ABS, SAN and GPPS).

Edistir® ICE R 930 XP

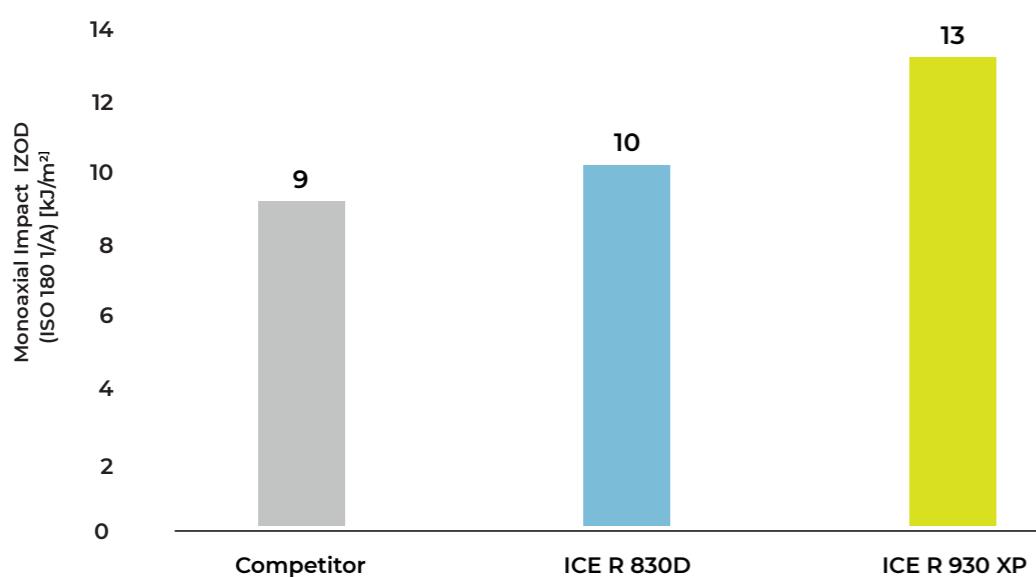
Edistir® ICE R 930 XP

Sfruttando il proprio know-how, Versalis ha messo a punto un nuovo prodotto dalle elevate proprietà ESCR Environmental Stress Cracking Resistance, con una **resistenza a impatto migliorata** senza penalizzazione del modulo elastico: **Edistir® ICE R 930 XP**.

Taking advantage of its know-how, Versalis has developed a new product with high Environmental Stress Cracking Resistance ESCR properties, **with enhanced Impact Resistance** without penalizing the elastic modulus: **Edistir® ICE R 930 XP**.



Fig. 1
Resilienza Izod a confronto
Izod Impact Resistance in comparison

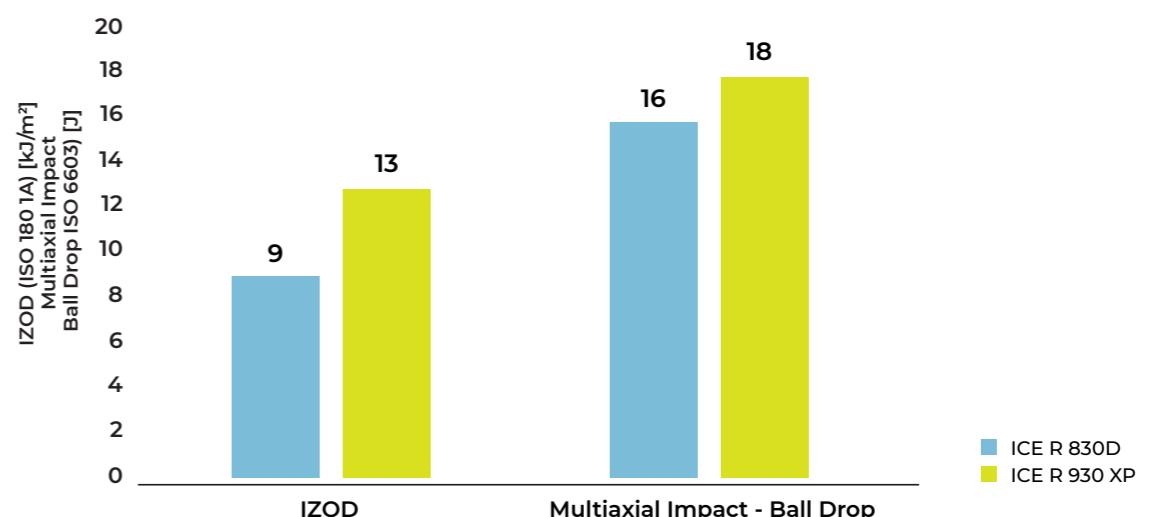


Mantenendo quindi le proprietà intrinseche derivanti dalla tecnologia Versalis quali l'ampia finestra di lavorabilità e il basso contenuto di chemicals e composti organici volatili TVOC, **Edistir® ICE R 930 XP** è caratterizzato da significativi miglioramenti della resistenza a impatto associati all'ottimizzazione delle proprietà reologiche e termiche del materiale.

Therefore maintaining the intrinsic properties resulting from Versalis technology, such as a wide window of workability, low content of chemicals and TVOC, **Edistir® ICE R 930 XP** together with excellent rheological and thermal properties shows significant improvements in terms of impact resistance.

Fig. 2

Izod e Falling Dart a confronto tra gradi Edistir® Ice
Izod and Falling Dart in comparison between Edistir® Ice grades

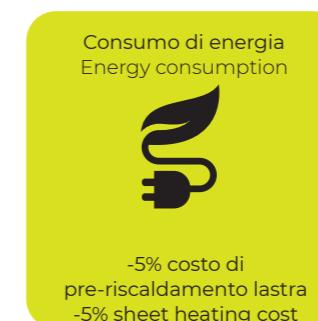


A fronte del rafforzamento della resistenza all'urto e del miglioramento della processabilità sia in fase di estrusione che di termoformatura, **Edistir® ICE R 930 XP** permette all'utilizzatore finale di ottenere celle frigo con ottime prestazioni anche partendo da lastre con **spessore ridotto**.

Strengthening the impact resistance and improving the processability both in the extrusion and in the thermoforming phase, **Edistir® ICE R 930 XP** allows the end user to obtain inner liners with excellent performance even starting from sheets with **reduced thickness**.

Fig. 3

Perfezionamento delle prestazioni
Performance Improvement

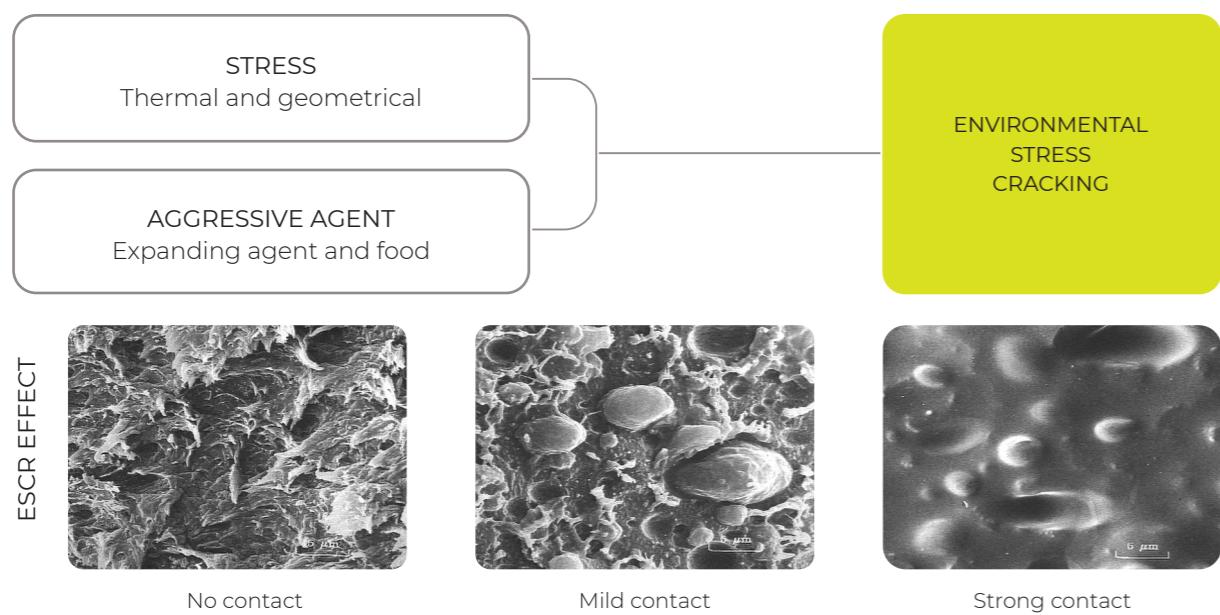


Le sue peculiari caratteristiche, come il **contenuto trascurabile di residui TVOC** e di chemicals, e la **resistenza alle sostanze oleose e grasse**, fanno di Edistir® ICE R 930 XP un materiale d'eccellenza anche nel packaging alimentare avanzato.

Due to its peculiar set of properties, such as the **minimum amount of residual monomers and chemicals (TVOC)** and **excellent resistance to oils and fats**, Edistir® ICE R 930 XP successfully meets advanced food packaging needs too.

Fig. 4

Descrizione del fenomeno di Environmental Stress Cracking
Environmental Stress Cracking phenomenon description



Di seguito si riportano i valori tipici del materiale.

In the table below are reported typical material main properties.

Caratteristiche principali
Main characteristics

	STANDARD	TEST CONDITION	UNIT	ICE R 930 XP
MFI	ISO 1133	200°C/5 Kg	g/10min	2,5
IZOD	ISO 180 (C.i. 80x10x4mm)	23°C	kJ/m ²	13
VICAT	ISO 306	5 Kg- 50°C/h	°C	89
Tensile Modulus	ISO 527-1	1mm/min	MPa	1450

Versalis è disponibile ad approfondire ogni aspetto specifico su queste tematiche.

Versalis is available to provide details on the information above.



Versalis in the world



Versalis is focused on establishing itself as a solution provider, offering a range of increasingly market-oriented products at an international level. The company is present in the APAC region through its Shanghai-based subsidiary, Versalis Pacific Trading; in Mumbai, India; in Singapore; and in South Korea through LVE, a joint venture with Lotte Chemical.

Versalis can also count on subsidiaries Versalis Americas – with offices in Houston, Texas – and Versalis Mexico. Furthermore, Versalis serves the oil and gas industry with offices in Ghana and in Congo, with its portfolio of oilfield chemicals. Thanks to a widespread sales network, distributors and sales agents, Versalis can serve all markets worldwide.

HEADQUARTERS	SALES NETWORK	PLANTS	UK
San Donato Milanese, Milan (Italy)	Austria Belgium China Congo Czech Republic Denmark France Germany Ghana Greece Hungary India Italy Mexico Poland Portugal Qatar Romania Russian Federation Slovak Republic South Korea Spain Taiwan USA Venezuela	Brindisi: - Steam cracking - Aromatics - Polyethylene Crescentino: - Bio-ethanol Ferrara: - Elastomers - Polyethylene Mantua: - Intermediates - Styrene - Styrenics Porto Marghera: - Recycled polymers Porto Torres: - Elastomers - Renewable chemistry Priolo: - Steam cracking - Aromatics Ragusa: - Polyethylene EVA - Butadiene Ravenna: - Elastomers	Grangemouth: - Elastomers
LICENSING	Algeria Brazil China Egypt India Iran Japan Malaysia Portugal Qatar Romania Russia Slovak Republic South Korea Spain Taiwan USA Venezuela	Crescentino: - Bio-ethanol Ferrara: - Elastomers - Polyethylene Mantua: - Intermediates - Styrene - Styrenics Porto Marghera: - Recycled polymers Porto Torres: - Elastomers - Renewable chemistry Priolo: - Steam cracking - Aromatics Ragusa: - Polyethylene EVA - Butadiene Ravenna: - Elastomers	Dunkerque: - Steam cracking - Polyethylene EVA
ITALY	Ferrara Mantua Novara Porto Torres Ravenna Rivalta Scrivia	Brindisi: - Steam cracking - Aromatics - Polyethylene Crescentino: - Bio-ethanol Ferrara: - Elastomers - Polyethylene Mantua: - Intermediates - Styrene - Styrenics Porto Marghera: - Recycled polymers Porto Torres: - Elastomers - Renewable chemistry Priolo: - Steam cracking - Aromatics Ragusa: - Polyethylene EVA - Butadiene Ravenna: - Elastomers	Oberhausen: - Polyethylene EVA
FRANCE			Szàzhalmabatta: - Styrenics
GERMANY			
HUNGARY			
SOUTH KOREA			Yeosu (LVE, a joint venture with Lotte Chemical): - Elastomers



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