



POLYCHIM INDUSTRIE

CLEAR AS GLASS

NEW GENERATION CLEAR PP HOMOPOLYMER



HJ45XI

HS45XI

The two high clarity PP-Homopolymer grades HJ45XI and HS45XI are specially designed for thin walled injection-moulding applications, such as dairy- or meat-packaging, but also other applications like technical parts with very good transparency or automotive solutions are feasible.

With Polychim's high clarity PP-Homopolymer your plastic parts will be as clear as glass and therefore will make the difference.



POLYPROPYLENE HOMOPOLYMER

Datasheet version: March 2019

TYPICAL PROPERTIES

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE
Melt Flow Rate (230°C/2.16Kg)	ASTM D1238	g/10 min	75 ± 8.0
Density	ASTM 1505	g/cm ³	0.9
Colour	ASTM E313	Yi	0 max
Tensile Yield Strength (50mm/min)	ASTM D638	MPa	40
Yield Elongation (50mm/min)	ASTM D638	%	7.5
Tensile at break (50mm/min)	ASTM D638	MPa	38
Elongation at break (50mm/min)	ASTM D638	%	12
Flexural Modulus at 1.3mm/min (1% sec)	ASTM D790	MPa	1800
Notched Izod Impact Strength at 23°C	ASTM D256-A	J/m	25
Heat Deflection Temperature	ASTM D648	455 kPa	116
		1820 kPa	60

Typical data not to be used as specifications

Polypropylene **HS45XI** is clarified with the latest generation clarifier, taking advantage of its excellent aesthetics and processing efficiency. This product is a high-clarity PP grade for thin-walled packaging and injection moulded containers for food and non-food applications. In addition to the excellent transparency level, this grade allows converters to achieve considerable energy and cost savings by processing the grades at lower temperatures and with shorter cycle times than typical products in the market. This grade possesses a high stiffness, which helps to improve top load properties as well as enabling down gauging of the final product.

APPLICATIONS

Injection moulding, Thin wall injection moulding (TWIM)

HJ45XI

POLYPROPYLENE HOMOPOLYMER

Datasheet version: March 2019

TYPICAL PROPERTIES

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE
Melt Flow Rate (230°C/2.16Kg)	ASTM D1238	g/10 min	55 ± 5.0
Density	ASTM 1505	g/cm ³	0.9
Colour	ASTM E313	Yi	0 max
Tensile Yield Strength (50mm/min)	ASTM D638	MPa	39.5
Yield Elongation (50mm/min)	ASTM D638	%	8
Tensile at break (50mm/min)	ASTM D638	MPa	38
Elongation at break (50mm/min)	ASTM D638	%	13.5
Flexural Modulus at 1.3mm/min (1% sec)	ASTM D790	MPa	1800
Notched Izod Impact Strength at 23°C	ASTM D256-A	J/m	27
Heat Deflection Temperature	ASTM D648	455 kPa	116
		1820 kPa	60

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APPLICATIONS

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Polychim Industrie S.A.S.
 Port 4810, 4810 Route d'Artois,
 59279 Loon-Plage, France
 T +33 (0)3 28 58 02 70
 F +33 (0)3 28 27 26 65
 www.bintg.com
 polychim.cs@bintg.com

TVA FR 90 349 078 097
 S.A.S. au Capital de 53.375.000 Euros
 R.C. Dunkerque 89 B 10
 Siret 349 078 097 00020
 APE 2016 Z

Natixis 75060 Paris
 BIC NATXFRPPXXX
 IBAN FR76 3000 7999 9904 2762 1200 064
 R.I.B. 30007-99999.04276212000-64
 BANK 30007
 Branch code 99999
 Account 04276212000 key 64



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