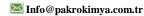
Pakro Kimya Dış Ticaret A.Ş.

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## DOW™ HDPE 10-10-11 **High Density Polyethylene Resin**

### Overview

DOW™ 10462N High Density Polyethylene Resin (HDPE) is a narrow molecular weight distribution, high density homopolymer designed to provide excellent stiffness, low warpage, acceptable toughness, and good moldability. This resin is ideally suited for injection molding crates, cases, trays, tote bins, and other objects requiring high rigidity and offering excellent processability over a wide range of molding conditions.

### Main Characteristics:

- · Excellent stiffness / modulus
- · Excellent warp resistance
- Designed for tote boxes, industrial containers and other parts requiring high modulus

### Complies with:

- U.S. FDA 21 CFR 177.1520(c)3.2a
- Europe EU-Directive 2002/72/EC
- U.S. FDA-DMF

Consult the regulations for complete details.

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· Antiblock: No

· Slip: No

· Processing Aid: No

Physical	N. T.	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density		0.963	g/cm³	0.963	g/cm³	ASTM D792
Base Density		0.963	g/cm³	0.963	g/cm³	Dow Method
Melt Index (190°C/2.16 kg)		10	g/10 min	10	g/10 min	ASTM D1238
Mechanical		Nominal Value	(English)	Nominal Value	(SI)	Test Method
Tensile Strength						ASTM D638 <sup>¹</sup>
Yield		4300	psi	29.6	MPa	
Break		2100	psi	14.5	MPa	
Tensile Elongation						ASTM D638 <sup>¹</sup>
Yield		9.0	%	9.0	%	
Break		200	%	200	%	
Flexural Modulus - 2% Secant		190000	psi	1310	MPa	ASTM D790B <sup>¹</sup>
Impact		Nominal Value	(English)	Nominal Value	(SI)	Test Method
Tensile Impact Strength		75.0	ft·lb/in²	158	kJ/m²	ASTM D1822 -
Thermal		Nominal Value	(English)	Nominal Value	(SI)	Test Method
Brittleness Temperature		< -100	°F	< -73.3	°C	ASTM D746 '
Vicat Softening Temperature		262	°F	128	°C	ASTM D1525
Melting Temperature (DSC)		273	°F	134	°C	Dow Method

## **Notes**

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

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<sup>&</sup>lt;sup>1</sup> Molded and tested in accordance with ASTM D 4976.

<sup>&</sup>lt;sup>2</sup> Type S

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