## **Kazan HDPE 273-285**

## High Density Polyethylene

Kazanorgsintez Joint Stock Company

## Message:

HDPE FILM GRADES 273-285, PE8D-2B5, 293-2B5D, PEBO-285D GOST / TU: TU 2243-127-00203335-2000

Composition of 293-285D, PE80B-285D grades includes processing aids. Processing aid allows extruding polyethylene throughout narrower die head and avoiding carbon deposit while haul-off, that means to make a thinner film with good mechanical properties. According to the experience of end users of such products it is possible to make high-quality extrusion molded thin films (5 to 9 microns of film gauge) which can be used for food packaging. Production of thinner film decreases the cost of polyethylene to be processed in the cost of 1 m2 of finished product. HDPE film grades have sanitary-and-epidemiologic authorization.

These grades are being manufactured based on 273,293, PE80B grades, have high molecular weight and wide MWD. The composition of products made on above polymers includes high-performance thermal stabilizers and processing aids which can improve processing. The grades are intended to process using extrusion method into high strength thin film and for other applications.

Additive Reat Stabilizer Processing Aid  Features Good Processability High Molecular Weight Unitribution Forms Pellets Processing Method Pellets Processing Method Extrusion Physical Nominal Value Unit Pensity 0.49 to 0.952 g/cm³  Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) Nominal Value Unit Pensity 0.30 to 0.60 g/10 min Mechanical Nominal Value Unit Tensile Stress  Yield > 19.0 MPa Break > 21.6 MPa Break > 21.6 MPa Additional Information Nominal Value Unit Unit Unit Unit Unit Unit Unit Unit	General Information		
Features  Good Processability High Molecular Weight Wide Molecular Weight Distribution  Forms Pellets Processing Method Extrusion Film Extrusion  Physical Nominal Value Unit  Density 0.949 to 0.952 g/cm³  Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) 0.30 to 0.60 g/10 min  Mechanical Nominal Value Unit  Tensile Stress  Yield 19.0 19.0 MPa  Break 21.6 MPa  Additional Information Nominal Value Unit Unit	Additive	Heat Stabilizer	
High Molecular Weight Distribution  Wide Molecular Weight Distribution  Forms Pellets  Processing Method Extrusion  Film Extrusion  Physical Nominal Value Unit  Density 0,49 to 0,952 g/cm³  Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) 0,30 to 0.60 g/10 min  Mechanical Nominal Value Unit  Tensile Stress  Yield > 19.0 MPa  Break > 21.6 MPa  Tensile Strain (Break) > 700 %  Additional Information Nominal Value Unit		Processing Aid	
High Molecular Weight Distribution  Wide Molecular Weight Distribution  Forms Pellets  Processing Method Extrusion  Film Extrusion  Physical Nominal Value Unit  Density 0,49 to 0,952 g/cm³  Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) 0,30 to 0.60 g/10 min  Mechanical Nominal Value Unit  Tensile Stress  Yield > 19.0 MPa  Break > 21.6 MPa  Tensile Strain (Break) > 700 %  Additional Information Nominal Value Unit			
Wide Molecular Weight Distribution   Uses Film   Forms Pellets   Processing Method Extrusion   Physical Nominal Value Unit   Density 0.949 to 0.952 g/cm³   Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) 0.30 to 0.60 g/10 min   Mechanical Nominal Value Unit   Tensile Stress Yield > 19.0 MPa   Break > 21.6 MPa   Tensile Strain (Break) > 700 %   Additional Information Nominal Value Unit	Features	Good Processability	
Uses Film Forms Pellets Processing Method Extrusion Physical Nominal Value Unit Density 0.949 to 0.952 g/cm³ Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) 0.30 to 0.60 g/10 min Mechanical Nominal Value Unit Tensile Stress Yield > 19.0 MPa Break > 21.6 MPa Additional Information Nominal Value Unit Unit Unit Unit Unit Unit		High Molecular Weight	
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Density         0.949 to 0.952         g/cm³           Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)         0.30 to 0.60         g/10 min           Mechanical         Nominal Value         Unit           Tensile Stress         Yield         > 19.0         MPa           Break         > 21.6         MPa           Tensile Strain (Break)         > 700         %           Additional Information         Nominal Value         Unit		Film Extrusion	
Density         0.949 to 0.952         g/cm³           Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)         0.30 to 0.60         g/10 min           Mechanical         Nominal Value         Unit           Tensile Stress         Yield         > 19.0         MPa           Break         > 21.6         MPa           Tensile Strain (Break)         > 700         %           Additional Information         Nominal Value         Unit			
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kg)         0.30 to 0.60         g/10 min           Mechanical         Nominal Value         Unit           Tensile Stress         Yield         > 19.0         MPa           Break         > 21.6         MPa           Tensile Strain (Break)         > 700         %           Additional Information         Nominal Value         Unit	Density	0.949 to 0.952	g/cm³
MechanicalNominal ValueUnitTensile StressYield> 19.0MPaBreak> 21.6MPaTensile Strain (Break)> 700%Additional InformationNominal ValueUnit			
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Yield> 19.0MPaBreak> 21.6MPaTensile Strain (Break)> 700%Additional InformationNominal ValueUnit	Mechanical	Nominal Value	Unit
Break > 21.6 MPa Tensile Strain (Break) > 700 % Additional Information Nominal Value Unit	Tensile Stress		
Tensile Strain (Break) > 700 % Additional Information Nominal Value Unit	Yield	> 19.0	MPa
Additional Information Nominal Value Unit	Break	> 21.6	MPa
	Tensile Strain (Break)	> 700	%
Volatiles < 0.090 %	Additional Information	Nominal Value	Unit
	Volatiles	< 0.090	%

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