

# NEFTEKHIM PE 4115P (16402)

Linear Low Density Polyethylene

Nizhnekamskneftekhim Inc.

Message:

Product obtained by gas phase polymerization of ethylene in presence of complex metalorganic catalysts.  
Stabilization recipe: antacid, antioxidant, thermostabilizer, dispersing agent.  
Application: general purpose grade for cast and blown films.  
Technical requirements: TU 2211-145-05766801-2008

General Information			
Additive	Acid Neutralizer		
	Antioxidant		
	Heat Stabilizer		
Features	Acid Resistant		
	Antiblocking		
	Antioxidant		
	Dispersible		
	Heat Stabilized		
Uses	Cast Film		
	Film		
	General Purpose		
Forms	Pellets		
Processing Method	Blown Film		
	Cast Film		
Physical	Nominal Value	Unit	Test Method
Density	0.914 to 0.918	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.8 to 2.2	g/10 min	ASTM D1238
Gel Content <sup>1</sup>			
> 200.0 µm	250	pcs/m <sup>2</sup>	
200.0 to 500.0 µm	245	pcs/m <sup>2</sup>	
500.0 to 1000.0 µm	5.00	pcs/m <sup>2</sup>	
> 1.00 mm	0.00	pcs/m <sup>2</sup>	
Melt Flow Ratio - MFR 21.6 kg/MFR 2.16 kg	< 30.0		ASTM D1238
Films	Nominal Value	Unit	Test Method
Secant Modulus			ASTM D882
2% Secant, MD	120	MPa	

2% Secant, TD	130	MPa	
Tensile Strength			ASTM D882
MD : Yield	44.0	MPa	
TD : Yield	30.0	MPa	
Tensile Elongation			ASTM D882
MD : Break	550	%	
TD : Break	820	%	
Dart Drop Impact	95	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD	120	g	
TD	380	g	

#### NOTE

1. p.6 Attachment A TU  
2211-14505766801

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