

# NEFTEKHIM PP 4345S

Polypropylene Copolymer  
Nizhnekamskneftekhim Inc.

Message:

Product obtained by copolymerization of propylene and ethylene in presence of complex metalorganic catalysts.  
It incorporates increased long-term thermal stability, thermal-oxidative degradation resistance when PP is produced, processed and PP-made articles are exploited, improved optical properties, improved antistatic properties to produce articles, improved rheology of melt, improved glossy surface of articles, easier demolding.  
Application: high-speed jet molding, high-quality packaging, transparent containers and covers.  
Technical requirements: TU 2211-136-05766801-2006

General Information			
Additive	Antistatic		
Features	Antistatic		
	Controlled Rheology		
	Copolymer		
	Good Mold Release		
	Good Thermal Stability		
	High Gloss		
	Opticals		
	Oxidation Resistant		
Uses	Containers		
	Packaging		
	Protective Coverings		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm <sup>3</sup>	
Apparent Density	0.48 to 0.60	g/cm <sup>3</sup>	
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	35 to 45	g/10 min	ASTM D1238
Ash Content	0.025 to 0.050	%	
Thermal Creep Temperature <sup>1</sup>	70 to 80	°C	
Thermal-oxidative Deterioration (150°C)	15.0	day	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	75 to 82		
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	950	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	45	J/m	ASTM D256

Thermal	Nominal Value	Unit
Vicat Softening Temperature <sup>2</sup>	130 to 138	°C
NOTE		
1.	at load 0.46 H/mm <sup>2</sup>	
2.	in liquid medium under force 10 H	

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