# Petrothene® PP 52T12A

Equistar Chemicals, LP - Polypropylene Copolymer

### **Product Description**

PETROTHENE PP 52T12A is a clarified polypropylene copalymer with antistat for use in injection molding applications. This resin exhibits good room temperature impact strength, good mold release properties, maintains excellent balance of strength and stiffness, and provides fast set-up. Typical applications include housewares, storage boxes, containers and vials.

Product Characteristics			
Material Status	Commercial: Active		
Availability	North America		
Test Standards Available	• ASTM		
Additive	Antistatic		
Features	<ul> <li>Antistatic</li> <li>Impact Resistance, Good</li> </ul>		
	<ul> <li>Copolymer, Random</li> <li>Food Contact Acceptable</li> </ul>		
	Mold Release, Good		
Uses	Household Goods		
	Containers		
Agency Ratings	• FDA 21 CFR 177.1520 <sup>1</sup>		
_ Appearance	Clear		
Forms	Pellets		
Processing Method	Injection Molding		

## Properties <sup>2</sup>

Nominal Values (English)	Test Method
12.0 g/10 min	ASTM D1238
Nominal Values (English)	Test Method
200000 psi	ASTM D638
5400 psi	ASTM D638
9.4 %	ASTM D638
245000 psi	ASTM D790
Nominal Values (English)	Test Method
1.00 ft-lb/in	ASTM D256
4.00 ft-lb/in	ASTM D256
30.0 in-lb	ASTM D3029
Nominal Values (English)	Test Method
96	ASTM D785
Nominal Values (English)	Test Method
208 °F	ASTM D648
	12.0 g/10 min  Nominal Values (English)  200000 psi 5400 psi 9.4 % 245000 psi  Nominal Values (English) 1.00 ft-lb/in 4.00 ft-lb/in 30.0 in-lb  Nominal Values (English) 96  Nominal Values (English)

#### **Additional Properties**

The value listed as Unnotched Izod Impact, ASTM D256, was tested in accordance with ASTM D4812.

#### **Processing Information**

· · · · · · · · · · · · · · · · · · ·			
Injection Molding Parameters	Nominal Values (English)	Test Method	
Rear Temperature	430 °F		
Middle Temperature	450 °F		
Front Temperature	470 °F		
Nozzle Temperature	470 °F		

#### **Notes**

When used unmodified for the manufacture of food contact articles, Petrothene® PP 52T12A will comply with Food Additive Regulations FDA 21 CFR 177.1520 under the U.S. Food, Drug and Cosmetic Act. Such uses are subject to good manufacturing practices and any other limitations which are part of the statute or regulations. These should be consulted for complete details.

<sup>&</sup>lt;sup>2</sup> Typical properties; not to be construed as specifications.

<sup>3 2</sup> in/min

4 0.05 in/min