

## Akzo Nobel Expancel® 461 DU 40 Dry unexpanded microspheres

Category : Other Engineering Material , Additive/Filler for Polymer , Polymer , Thermoplastic

### Material Notes:

Expancel microspheres are thermoplastic hollow spheres. The microspheres are white spherically formed particles with a thermoplastic shell encapsulating a gas. When the microspheres are heated the thermoplastic shell softens and the gas increases its pressure, resulting in an expansion of the spheres. Applications: Anti-slip coatings; Printing ink; Car underbody coatings; Industrial non-woven textiles;

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Akzo-Nobel-Expancel-461-DU-40-Dry-unexpanded-microspheres.php](http://www.lookpolymers.com/polymer_Akzo-Nobel-Expancel-461-DU-40-Dry-unexpanded-microspheres.php)

Physical Properties	Metric	English	Comments
Density	<= 0.0200 g/cc	<= 0.000723 lb/in <sup>3</sup>	TMA
Particle Size	9.0 - 15 µm	9.0 - 15 µm	D(0.5)

Thermal Properties	Metric	English	Comments
Transformation Temperature	98.0 - 104 °C	208 - 219 °F	Expansion Starting Temperature
	142 - 150 °C	288 - 302 °F	Temp at Max Expansion

Descriptive Properties	Value	Comments
Solvent Resistance	4	Scale of 1 to 5

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