

## Akzo Nobel Expancel® 461 DU 20 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-20-Dry-unexpanded-microspheres.php](http://www.lookpolymers.com/polymer_Akzo-Nobel-Expancel-461-DU-20-Dry-unexpanded-microspheres.php)

| Physical Properties | Metric         | English                       | Comments |
|---------------------|----------------|-------------------------------|----------|
| Density             | <= 0.0300 g/cc | <= 0.00108 lb/in <sup>3</sup> | TMA      |
| Particle Size       | 6.0 - 9.0 µm   | 6.0 - 9.0 µm                  | D(0.5)   |

| Thermal Properties         | Metric       | English      | Comments                       |
|----------------------------|--------------|--------------|--------------------------------|
| Transformation Temperature | 100 - 106 °C | 212 - 223 °F | Expansion Starting Temperature |
|                            | 137 - 145 °C | 279 - 293 °F | Temp at Max Expansion          |

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

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China