

April 2012

# 821

**Product Advantages:** Low Die Drool. Great Value.

Nominal Physical Properties	Test Method	Unit	821
Density	ISO 1183	g/cm <sup>3</sup>	0.91
Melt Flow (230°C/2.16Kg)	ISO 1133	g/10min	1.2
Durometer Hardness (10 second delay)	ISO 868	Shore A	90
Tensile Modulus (M100 / 100% Modulus)	ISO 37 (500mm/min, Die C)	MPa	5.4
Tensile Strength	ISO 37 (500mm/min, Die C)	MPa	16.0
Tensile Elongation	ISO 37 (500 mm/min, Die C)	%	810
Compression Set (22 hrs at 23 °C)	ASTM D395	%	31
Compression Set (22 hrs at 70 °C)	ASTM D395	%	71
Flexural Modulus	ISO 178	MPa	62

### Typical Applications:

- Films / Skins / Foils
- Air Ducts
- Drain Hose

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of this information and of our products are beyond our control, this information should not be used in substitution for customers' tests to ensure that Sumitomo Chemical's guidelines are accurate and that our products are safe, effective, and fully satisfactory for the intended end use. We do not represent, warrant, or otherwise guarantee, expressly or impliedly, the suitability, accuracy, reliability, or completeness of this information or the products, guidelines, materials, or processes described. The user is solely responsible for all determinations regarding any use of the information contained herein or the product itself. The nominal properties reported herein are typical of the product, but do not reflect normal testing variance and therefore should not be used for specification purposes.

This document reports accurate and reliable information to the best of our knowledge, but our suggestions and recommendations cannot be guaranteed because the conditions of use are beyond our control. Information presented herein is given without reference to any patent questions which may be encountered in the use thereof. Such questions should be investigated by those using this information. Sumitomo Chemical Co., Ltd. Assumes no responsibility for the use of information presented herein and hereby disclaims all liability in regard to such use.

Sumitomo Chemical **North America**

Sumitomo Chemical **Europe**

Sumitomo Chemical **Asia**

**SUMITOMO  
CHEMICAL**

April 2012

# 821

### Extrusion Equipment Recommendations

Extruder Type	Twin Screw or Single Screw with Mixing Zone
Single Screw Type	Full Flight General Purpose with L/D Ratio > 20:1 & 3:1 Compression Ratio

### Processing Guidelines

Feed Zone	90 °F – 210 °F
Kneading Zone	360 °F – 395 °F
Die	395 °F – 430 °F

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of this information and of our products are beyond our control, this information should not be used in substitution for customers' tests to ensure that Sumitomo Chemical's guidelines are accurate and that our products are safe, effective, and fully satisfactory for the intended end use. We do not represent, warrant, or otherwise guarantee, expressly or impliedly, the suitability, accuracy, reliability, or completeness of this information or the products, guidelines, materials, or processes described. The user is solely responsible for all determinations regarding any use of the information contained herein or the product itself. The nominal properties reported herein are typical of the product, but do not reflect normal testing variance and therefore should not be used for specification purposes.

This document reports accurate and reliable information to the best of our knowledge, but our suggestions and recommendations cannot be guaranteed because the conditions of use are beyond our control. Information presented herein is given without reference to any patent questions which may be encountered in the use thereof. Such questions should be investigated by those using this information. Sumitomo Chemical Co., Ltd. Assumes no responsibility for the use of information presented herein and hereby disclaims all liability in regard to such use.

Sumitomo Chemical **North America**

Sumitomo Chemical **Europe**

Sumitomo Chemical **Asia**

**SUMITOMO  
CHEMICAL**