

## VINPOL™ PBE01874

### Polypropylene Based Elastomer

Melt Flow: 1.1

Density: 0.874

**VINPOL PBE01874** is a metallocene catalyzed propylene based elastomer comprised of isotactic propylene repeat units with random ethylene distribution. It is designed for blown film, compounding, polymer modification and thermoforming applications requiring improved melt strength, and can be blended with PP, PE and other polyolefins. It offers enhanced tear, puncture, optical and sealing properties, as well as good chemical resistance to aqueous systems and non-hydrocarbon based fluids.. It also is approved for food contact applications\* with good organoleptic properties.

Resin Property	Typical Value	Units	Test Method
Melt Index (190°C/2.16kg)	1.1	g/10 min	ASTM D-1238
Ethylene Content	11	wt %	Supplier Method
Density	0.874	g/cm <sup>3</sup>	ASTM D-1505
Durometer Hardness	34	Shore D	ASTM D-2240
Tensile Stress at 100%	636 (4.39)	Psi (MPa)	ASTM D-638
Tensile Stress at 300%	638 (4.40)	psi (MPa)	ASTM D-638
Tensile Strength at Yield	675 (4.65)	Psi (MPa)	ASTM D-638
Tensile Strength at Break	2,460 (17.0)	g	ASTM D-638
Tensile Set	49	lbf (N)	Supplier Method
Elongation at Yield	47	In-lb (J)	ASTM D-638
Elongation at Break	1,756	%	ASTM D-638
Flexural Modulus, 1% Secant	8,650 (59.7)	%	ASTM D-790
Tear Strength (Die C)	367 (64.3)	%	ASTM D-624
Vicat Softening Temperature	155 (68.3)	°F (°C)	Supplier Method

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