

VINPOL™ PBE01074

Polypropylene Based Elastomer

Melt Flow: 1.2

Density: 0.874

VINPOL PBE01074 is a metallocene catalyzed propylene based elastomer comprised of isotactic propylene repeat units with random ethylene distribution. It is suitable for a wide range of blown film and thermoforming applications where improved melt strength is desired, 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
Mass-Flow Rate (230 °C/2.16kg)	2.5	g/10 min	Supplier Method
Ethylene Content	11	wt %	Supplier Method
Density	0.874	g/cm ³	Supplier Method
Durometer Hardness	29	Shore D	Supplier Method
Tensile Stress at 100%	680 (4.7)	psi (MPa)	Supplier Method
Tensile Stress at 300%	730 (5.0)	psi (MPa)	Supplier Method
Tensile Strength at Yield	760 (5.2)	psi (MPa)	Supplier Method
Tensile Strength at Break	>2,100 (>14)	g	Supplier Method
Tensile Set	49	%	Supplier Method
Elongation at Yield	30	%	Supplier Method
Elongation at Break	>800	%	Supplier Method
Flexural Modulus, 1% Secant	9,500 (65)	psi (MPa)	Supplier Method
Tear Strength (Die C)	372 (65.1)	lbf/in (kN/m)	Supplier Method
Vicat Softening Temperature	153 (67.0)	°F (°C)	Supplier Method

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