Higran RS1684

Polypropylene, Specialty Products

Product Description

Higran RS1684 is a material of very broad molecular weight distribution designed for the production of medium density foam product using conventional, extrusion equipment. Its unique rheological behavior supports stable foam cell growth during expansion with commercially available chemical blowing agents. Higran RS1684 is also well suited for blends in thin, transparent blown films, providing excellent processing stability and potential for line speed improvement. Typical Higran RS1684 applications include blown PP film, TPE compounds, foamed food containers, bottle cap seals/liners, protective insulation labels and cable insulation.

Product Characteristics

Status	Commercial: Restricted
Test Method used	ISO

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.9	g/cm³
Melt flow rate (MFR) (230°C/2.16kg)	ISO 1133	3.0	g/10 min
Melt volume flow rate (230°C/2.16Kg)	ISO 1133	3.6	cm³/10min
Mechanical			
Tensile Modulus	ISO 527-1, -2	1700	MPa
Tensile Stress at Yield	ISO 527-1, -2	37.2	MPa
Tensile Strain at Break	ISO 527-1, -2	155.0	%
Tensile Strain at Yield	ISO 527-1, -2	8.7	%
Impact			
Charpy notched impact strength	ISO 179		
(23 °C)		6.5	kJ/m²
(0 °C)		4.0	kJ/m²
Hardness			
Shore hardness D	ISO 868/ASTM D 2240	71	
Thermal			
Vicat softening temperature A/50	ISO 306	149.0	°C
Vicat softening temperature B/50	ISO 306	97.3	°C
Heat deflection temperature B	ISO 75/ASTM D 648	106	°C

Notes

Typical properties; not to be construed as specifications.