

Polypropylene Z30S Technical Datasheet

Description: is a high melt flow homopolymer for the production of low denier BCF, CF and staple fibers at medium to high spinning speeds. Z30S offers a high homogeneity, stable extrusion and excellent processability on both short and long spinning lines. This grade allows a high stretch ratio and gives tough and resilient fibers.

Z30S is widely used for the production of bulked continuous filament for carpet face yarns. Another major application is the production of high tenacity continuous filament for straps for backpacks, handles for big bags and safety belts. Continuous filament with medium tenacity is used for upholstery, sportswear and heavy duty clothing.

Z30S is also suitable for the production of lowdenier staple fibres for the thermobonding. Z30S is suitable for food contact.

Processing Method: Extrusion (BCF, CF and staple fibers)

Features: High melt flow Excellent processability Homopolymer

Typical Data:


TYPICAL PROPERTIES	VALUE	UNIT	METHOD
Physical			
Melt Flow Rate (230 °C, 2.16kg)	25	g/10min	ISO 1133
Density	0.9	g/cm ³	ISO 1183
Mechanical			
Flexural Modulus	1550	N/mm ²	ISO 178
Tensile Strength at Yield	35	N/mm ²	ISO R 527
Tensile Elongation at Yield	13	%	ISO R 527
Izod Impact Strength (notched) at 23 °C	3	kJ/m ²	ISO 180
Hardness Shore D	72	points	ISO 868
Thermal			
Vicat softening point (9.8N)	155	°C	ISO 306/A
H.D.T. (0.46 Mpa)	118	°C	ISO 75/B
Accelerated oven ageing in air at 150 °C	360	hours	ISO 4577

Typical Application: Bulked continuous filament for carpet face yarns, High tenacity continuous filament for straps for backpacks, Handles for big bags and safety belts, Upholstery, sportswear and heavy duty clothing Low denier staple fibres for the thermobonding



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