



ANALYSIS CERTIFICATE

Data Sheet

RG 1101 S

RG 1101S is a propylene homo polymer grade for the production of continuous filaments (CF) and bulk continuous filaments (BCF) with phenolic free anti-gasfading stabilization and inherent UV-stability.

Properties (typical values)

Properties	Unit	Test method	Value
<u>Melt flow rate</u>			
MFR 230/2.16	g/10 min	ISO 1133	24.0
<u>Mechanical properties</u>			
Tensile modulus of elasticity (v=1 mm/min)	MPa	ISO 527-2	1500
Tensile yield stress (v=50mm/min)	MPa	ISO 527-2	35
Tensile yield strain (v=50mm/min)	%	ISO 527-2	8
Tensile strain at break (v=50mm/min)	%	ISO 527-2	>50
Charpy impact strength unnotched	+23c	ISO 179/1eU	110
	-30c	ISO 179/1eU	13
Charpy impact strength notched	+23c	ISO 179/1eU	2.5
	-30c	ISO 179/1eU	1.5
Ball indentation hardness (H132/32 * H358/30)	MPa	ISO2039-1	78*
<u>Thermal properties</u>			
Melting point DSC	°C	ISO 3146	163
Heat deflection temperature			
- HDT/A (1.8 MPa)	°C	ISO 75-2	55
- HDT/B(0.45 MPa)	°C	ISO 75-2	85
Vicat softening temperature			
- VST/A50(10 N)	°C	ISO 306	154
- VST/B50 (50N)	°C	ISO 306	90
<u>Other properties</u>			
Density	g/cm ³	ISO 1183	0.91
<u>Applications</u>			
BCF/CF			

REGAL PETROCHEMICAL COMPANY.

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