

# Data Sheet

## HMEL Y35GR



Y35GR (Equivalent Novolen 1101 SC) is a CR-modified propylene homopolymer for the production of spunbonded nonwovens (NWS). The product provides superior resistance to gasfading and inherent basic UV protection.

### Properties (Typical Values)

Properties	Unit	Test method	Value
<b>Melt flow properties</b>			
MFR 230/2.16	g/10 min	ISO 1133	35
<b>Mechanical properties</b>			
Tensile modulus of elasticity (v = 1 mm/min)	MPa	ISO 527-2	1450
Tensile yield stress (v = 50 mm/min)	MPa	ISO 527-2	34
Tensile yield strain (v = 50 mm/min)	%	ISO 527-2	8
Tensile strain at break (v = 50 mm/min)	%	ISO 527-2	> 50
Charpy impact strength unnotched + 23 °C	kJ/m2	ISO 179/1eU	110
Charpy impact strength unnotched -30 °C	kJ/m2	ISO 179/1eU	13
Charpy impact strength notched + 23°C	kJ/m2	ISO 179/1eA	2.5
Charpy impact strength notched -30 °C	kJ/m2	ISO 179/1eA	1.5
Ball indentation hardness (H 358/30)	MPa	ISO 2039-1	70
<b>Thermal properties</b>			
Melting point, DSC	°C	ISO 3146	163
Heat deflection temperature			0
- HDT/A (1.8 MPa)	°C	ISO 75-2	55
- HDT/B (0.45 MPa)	°C	ISO 75-2	85
Vicat softening temperature			0
- VST/A50 (10 N)	°C	ISO 306	154
- VST/B50 (50 N)	°C	ISO 306	90
<b>Other properties</b>			
Density	g/cm3	ISO 1183	0.91
<b>Applications</b>			
Non-wovens spunbonded			

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