

# Data Sheet

## HMEL F03RR



F03RR (Equivalent Novolen 1104K) is a propylene homopolymer with narrow MFR specification range especially for OPP core layers and high performance weaving tapes, e.g. for carpet backing. The product is free from metal stearates and functional additives like slip agents and is therefore in particular suitable for metallisable BOPP film and provides low water-carry-over..

### Properties (Typical Values)

Properties	Unit	Test method	Value
<b><u>Melt flow properties</u></b>			
MFR 230/2.16	g/10 min	ISO 1133	3.2
<b><u>Mechanical properties</u></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	9
Tensile strain at break (v = 50 mm/min)	%	ISO 527-2	> 50
Charpy impact strength unnotched + 23 °C	kJ/m2	ISO 179/1eU	190
Charpy impact strength unnotched -30 °C	kJ/m2	ISO 179/1eU	16.5
Charpy impact strength notched + 23 °C	kJ/m2	ISO 179/1eA	4
Charpy impact strength notched -30 °C	kJ/m2	ISO 179/1eA	1.7
Ball indentation hardness (H 358/30)	MPa	ISO 2039-1	74
<b><u>Thermal properties</u></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><u>Other properties</u></b>			
Density	g/cm3	ISO 1183	0.91
<b><u>Applications</u></b>			
Core layer in metallisable and general OPP Film (stenter process), Raffia			

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