## Data Sheet HMEL F10SR



F10SR (Equivalent Novolen 1128 N) is a propylene homopolymer and suited for cast film applications with superior slip and antiblocking properties.

## **Properties (Typical Values)**

Properties	Unit	Test method	Value
<u>Melt flow properties</u> MFR 230/2.16	g/10 min	ISO 1133	10.5
Mechanical properties.Tensile modulus of elasticity (v = 1 mm/min)Tensile yield stress (v = 50 mm/min)Tensile yield strain (v = 50 mm/min)Tensile strain at break (v = 50 mm/min)Charpy impact strength unnotched + 23 °CCharpy impact strength unnotched -30 °C	MPa MPa % kJ/m2 kJ/m2	ISO 527-2 ISO 527-2 ISO 527-2 ISO 527-2 ISO 179/1eU ISO 179/1eU	1500 34 9 > 50 115 14
Charpy impact strength notched + 23 $^{\circ}$ C Charpy impact strength notched -30 $^{\circ}$ C	kJ/m2 kJ/m2	ISO 179/1eA ISO 179/1eA	3 1.5
Ball indentation hardness (H 358/30)	MPa	ISO 2039-1	76
Thermal propertiesMelting point, DSCHeat deflection temperature- HDT/A (1.8 MPa)- HDT/B (0.45 MPa)Vicat softening temperature- VST/A50 (10 N)- VST/B50 (50 N)	ဂံဂံ ဂံဂံ ဂံ	ISO 3146 ISO 75-2 ISO 75-2 ISO 306 ISO 306	163 0 55 85 0 154 90
Film properties (Cast Film, 50 µm) <sup>1)</sup> Gloss (20°) Haze Tear strength (MD/TD) Elogantion at break (MD/TD) Flexural modulus (MD/TD) Dart drop impact strength F50 Coefficient of Friction (dynamic)	% % MPa 9 -	ISO 2813 ASTM D 1003 DIN 53455 DIN 53455 DIN 53121 ASTM D1709 DIN 53375	100 2.7 42 / 38 680 / 720 700 / 760 280 0.18
Density	g/cm3	ISO 1183	0.91

1) The values were determined using film made under our own standardised conditions. When comparing with film manufactured under different conditions, the strong relationship between the film properties and manufacturing conditions must always be taken into account.

Applications

Cast film and water-quenched tubular film (TWQ film)

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