

Product Datasheet

Teldene B45ML

Polypropylene Heterophasic
Impact Copolymer



TYPICAL APPLICATIONS

- Injection molding applications
- Good for thin-walled containers for food packaging (margarine, yoghurt, etc.)
- sport goods, leisure goods, Housewares

KEY CHARACTERISTICS

- Nucleated heterophasic copolymer containing anti-static agent
- Exhibits outstanding balance of mechanical properties with medium high fluidity
- Food contact approval for specific applications (*refer to NATPET*)

PROCESSING METHOD

Injection molding

QUALITATIVE

Test	Conditions	Method	Value	Unit
Basic				
Density		ISO 1183	0.905	g/cm ³
Melt Flow Rate (MFR)	230°C/2.16 kg	ISO 1133	44	g/10-min
Melt volume Flow Rate	230°C/2.16 kg	ISO 1133	59	cm ³ /10-min
Mechanical				
Tensile Modulus	1-mm/min	ISO 527-1, -2	1,550	MPa
Tensile Stress at Yield	50-mm/min	ISO 527-1, -2	28	MPa
Tensile Strain at Break	50-mm/min	ISO 527-1, -2	30	%
Tensile Strain at Yield	50-mm/min	ISO 527-1, -2	5	%
Charpy un-notched	23 °C, Type 1, Edgewise	ISO 179	110	kJ/m ²
	0°C, Type 1, Edgewise	ISO 179	100	kJ/m ²
	-20 °C, Type 1, Edgewise	ISO 179	85	kJ/m ²
Charpy notched	23 °C, Type 1, Edgewise, Notch A	ISO 179	5.0	kJ/m ²
	0 °C, Type 1, Edgewise, Notch A	ISO 179	3.5	kJ/m ²
	-20 °C, Type 1, Edgewise, Notch A	ISO 179	3.0	kJ/m ²
Ball indentation hardness	(H 358/30)	ISO 2039-1	68	MPa
Thermal				
Heat Deflection Temperature B	0.45 MPa Un-annealed	ISO 75B-1, -2	95	°C
Vicat Softening Temperature	A50 (50°C/h 10N)	ISO 306	151	°C
Vicat Softening Temperature	B50 (50°C/h 50N)	ISO 306	80	°C
Ductile/ Brittle transition temperature		ISO 6603-2	-53	°C

Note: The above are typical data representing the product; not to be construed as analysis certificate or specifications

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