

Em-Pad technical data sheet

Product Description

Em-Pads are made from Moplen EP300K which is a low fluidity heterophasic copolymer, suitable for injection moulding applications. The product exhibits very high impact even at low temperature combined with a good stiffness. Moplen EP300K is typically used in houseware items and in crates.

Product Characteristics

Status: Commercial: Active

Test Method used: ISO

Availability: Europe, Africa-Middle East

Processing Method: Injection Molding, Extrusion Thermoforming

Features: High Impact Resistance , Good Stiffness

Typical Customer Applications: Crates, Caps & Closures, Housewares



Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.9	g/cm ³
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	4	g/10 min
Melt volume flow rate (230°C/2.16Kg)	ISO 1133	5.4	cm ³ /10min
Mechanical			
Tensile Modulus	ISO 527-1, -2	1200	MPa
Tensile Stress at Yield	ISO 527-1, -2	27	MPa
Tensile Strain at Break	ISO 527-1, -2	>50	%
Tensile Strain at Yield	ISO 527-1, -2	7	%
Impact			
Charpy unnotched impact strength	ISO 179		
(23°C, Type 1, Edgewise)		No Break	kJ/m ²
(0°C, Type 1, Edgewise)		140	kJ/m ²
(-20°C, Type 1, Edgewise)		80.0	kJ/m ²
Charpy notched impact strength	ISO 179		
(23°C, Type 1, Edgewise, Notch A)		10.5	kJ/m ²
(0°C, Type 1, Edgewise, Notch A)		5.5	kJ/m ²
(-20°C, Type 1, Edgewise, Notch A)		4	kJ/m ²

Typical Properties	Method	Value	Unit
Hardness			
Ball indentation hardness (H 358/30)	ISO 2039-1	53	MPa
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	75	°C
Vicat softening temperature	ISO 306		
(A50 (50°C/h 10N))		150	°C
(B50 (50°C/h 50N))		71	°C

Notes: Typical properties; not to be construed as specifications.