Technical Data Sheet

Schulablend M/MK NC800 UV BMW BWN14775

Acrylonitrile Butadiene Styrene + PA

Product Description

Nanocomposite based on a ABS/PA-Blend for high dimensional stability

Processing Method	Injection Molding
Attribute	Good Dimensional Stability

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (250 °C/5.0 kg)	4.0	cm³/10 min	ISO 1133
Density, (Method A)	1.14	g/cm³	ISO 1183
Mechanical			
Tensile Stress at Yield			
(Type 1A, 50 mm/min)	39.0	MPa	ISO 527-2
(Type 1A, 50 mm/min) - Conditioned	28.0	MPa	ISO 527-2
Tensile Strain at Yield			
(Type 1A, 50 mm/min)	3.0	%	ISO 527-2
(Type 1A, 50 mm/min) - Conditioned	14	%	ISO 527-2
Tensile Modulus			
(1 mm/min, Type 1A)	2400	MPa	ISO 527-1
(1 mm/min, Type 1A) - Conditioned	1250	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	30	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	15	kJ/m²	ISO 179
(23 °C, Type 1, Edgewise, Notch A) - Conditioned	110	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	No Break		ISO 179
(-30 °C, Type 1, Edgewise)	No Break		ISO 179
(23 °C, Type 1, Edgewise) - Conditioned	No Break		ISO 179
Hardness			
Ball Indentation Hardness, (H 358/30)	85.0	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	116	°C	ISO 306
(A (10N), 50 °C/h)	194	°C	ISO 306

Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	97.0	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	77.0	°C	ISO 75-2/A
Flammable			
Burning Rate, (2.00 mm)	27	mm/min	ISO 3795
Glow Wire Flammability Index			
(1.5 mm)	650	°C	IEC 60695-2-12
(3.0 mm)	650	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			
(1.5 mm)	675	°C	IEC 60695-2-13
(3.0 mm)	675	°C	IEC 60695-2-13
UL Information			
Flammability Classification			
(1.5 mm)	HB		IEC 60695-11-10, -20
(3.0 mm)	HB		IEC 60695-11-10, -20
UL File Number	E86615		