

NEFTEKHIM ABS 0445E

Acrylonitrile Butadiene Styrene

Nizhnekamskneftekhim Inc.

Message:

ABS 0445E - is an extruded grade of general purpose with a good rigidity-hardness balance. It is used for production of sheets with high quality surface (co-extruded or not and with high extrusion ratio), applicable for refrigerators, sanitary, packaging, automobile parts, consumer goods and furniture (profiles). It is produced self-colored only, free of additives and dye.

General Information			
Features	Good Surface Finish		
	Medium Hardness		
	Medium Rigidity		
Uses	Appliances		
	Automotive Applications		
	Consumer Applications		
	General Purpose		
	Sanitary Products		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Coextrusion		
	Extrusion		
	Sheet Extrusion		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	2.5 to 5.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.60	%	
Water Absorption (Equilibrium)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	110		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	45.0	MPa	ASTM D638
Tensile Elongation (Break)	45	%	ASTM D638
Flexural Modulus	2300	MPa	ASTM D790
Flexural Strength (Yield)	68.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	12	kJ/m²	DIN 53453
Notched Izod Impact Strength (23°C)	15	kJ/m²	ISO 180
Thermal	Nominal Value	Unit	Test Method

Vicat Softening Temperature	100	°C	ASTM D1525 ¹
CLTE - Flow	9.0E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.17	W/m/K	ASTM C177
Deflection Temperature	104	°C	ASTM D648
Residual Styrene ²	0.050	%	Internal Method
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Glow Wire Ignition Temperature	650	°C	IEC 60695-2-1
Optical	Nominal Value		Test Method
Gardner Gloss (60°)	60		ASTM D523

NOTE

1. Rate A (50°C/h), Loading 2 (50 N)
2. Test Method: TU
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