OMNITECH® HCT ABS 35

Celanese Corporation - *Acrylonitrile Butadiene Styrene*

General Information

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Part Marking Code (ISO 11469)	• >ABS<		
Resin ID (ISO 1043)	• ABS		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	9.0	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	0.60	%	
Flow	0.60	%	
Water Absorption (Saturation, 73°F, 0.0787 in)	0.40	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	341000	psi	ISO 527-1
Tensile Stress (Yield)	6380	psi	ISO 527-2/50
Tensile Stress			
Break	4790	psi	ISO 527-2/5
Break	5080	psi	ISO 527-2/50
Tensile Strain (Yield)	2.3	%	ISO 527-2/50
Tensile Strain			
Break	8.4	%	ISO 527-2/5
Break	9.0	%	ISO 527-2/50
Flexural Modulus	363000	psi	ISO 178
Flexural Stress (3.5% Strain)	10000	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	3.7	ft·lb/in²	
73°F	8.8	ft·lb/in²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	40	ft·lb/in²	
73°F	59	ft·lb/in²	
Notched Izod Impact Strength			ISO 180/1A
-22°F	4.1	ft·lb/in²	
73°F	8.6	ft·lb/in²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	190	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	169	°F	ISO 75-2/A
Vicat Softening Temperature	198	°F	ISO 306/B50
CLTE - Flow	5.0E-5	in/in/°F	ISO 11359-2
CLTE - Transverse	5.0E-5	in/in/°F	ISO 11359-2
Fill Analysis	**Nominal Value**	**Unit**	**Test Method**
Ejection Temperature	189	°F	