

FLEX NORYL™ Resin WCV063 - Americas

(PPE+TPE)

Saudi Basic Industries Corporation (SABIC)

Product Texts

FLEX NORYL™ WCV063 resin is a flexible, non-reinforced extrusion grade of Polyphenylene Ether (PPE) + Thermoplastic Elastomer (TPE) with a Shore D Hardness rating of 63. FLEX NORYL WCV063 resin was developed for evaluation in automotive wire + cable applications requiring ISO6722 Class A or B. It exhibits ultra-thin wall capability, good scratch abrasion and pinch resistance, high dimensional stability, low shrinkage and warpage, very low water absorption, chemical resistance, and good dielectric strength. Processing is typically conducted on standard extrusion equipment, and UL 1581 testing is conducted on 2.0mm wire with 0.12mm X 20 stranded copper conductor.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	33	g/10min	ASTM D 1238
Temperature	280	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Modulus	840	MPa	ASTM D 638
Tensile Strength at Yield	28	MPa	ASTM D 638
Tensile Strength at Break	28	MPa	ASTM D 638
Elongation at Break	90	%	ASTM D 638
Flexural Modulus	720	MPa	ASTM D 790
Shore D Hardness	63	-	ASTM D 2240
Izod Impact notched, 1/8 in	560	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	170	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
ASTM Data			
DTUL @ 66 psi	82	°C	ASTM D 648
DTUL @ 264 psi	56	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1030	kg/m ³	ASTM D 792

Characteristics**Chemical Resistance**

General Chemical Resistance

Regional Availability

North America